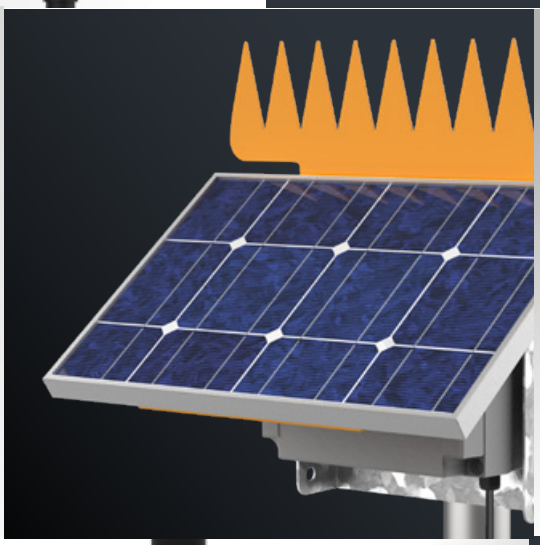
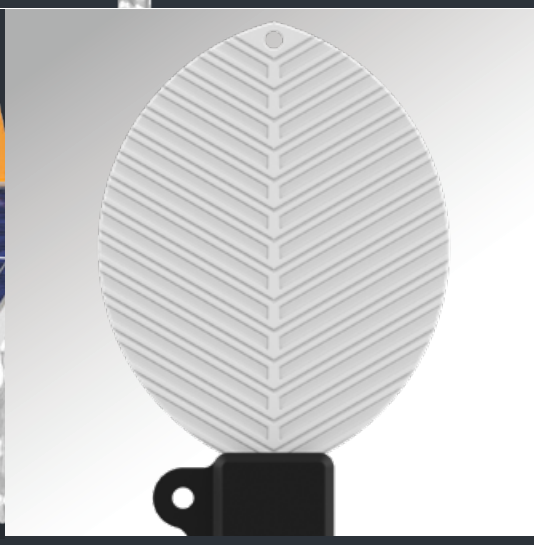
Victoria's On-farm Internet of Things Trial





Your entire farm, in your pocket.

- enhanced decision making driven by real-time data
- drive productivity
- save time
- peace of mind

Smart Farm Transformation

Contents

Introducing LX	6-13
LX Blue Node	14-15
AquaCheck® Soil Moisture + Temperature Probe 400mm	16
AquaCheck® Soil Moisture + Temperature Probe 800mm	17
EnviroPro® Soil Moisture + Temperature Probe 800mm	18
EnviroPro® Soil Moisture + Temperature Probe 1200mm	19
Sentek 600mm Soil Moisture + Temperature Probe	20
Sentek 1200mm Soil Moisture + Temperature Probe	21
Water EC/Salinity Sensor	22
Water pH Sensor	23
Davis Weather Station	24-25
Davis UV Sensor	26
Davis Solar Radiation Sensor	27
Davis Temperature and Humidity Sensor	28
Davis Rain Gauge	29
Atmos41 Weather Station	30
Leaf Wetness Sensing System	31
Spray Advisory System	32
Temperature Inversion Detection	33
Frost Detection System	34
Portable Rodent Activity Monitor	35
LX Track + Sense	36-37
Antares LTE-M Tracker & Gateway	38
"Antares LTE-M Tracker & Gatewaywith Advanced Sense"	39
Polaris LTE-M Tracker	40
Polaris LTE-M Tracker with Advanced Sense	41
Portable Hay Baling Solution	42
Flood Fence Monitoring Solution	43
Lyra Bluetooth Tracking Beacon	44
Lyra Bluetooth Track & Sense Beacon	45
Lyra Stock Monitoring Kit	46
Hay Bale Monitoring System	47
Asset Tracking Kits	48 - 49
Electric Fence Monitor	50
Gate Detection System	51
Laser Beam Break Sensor Kit	52

Contents

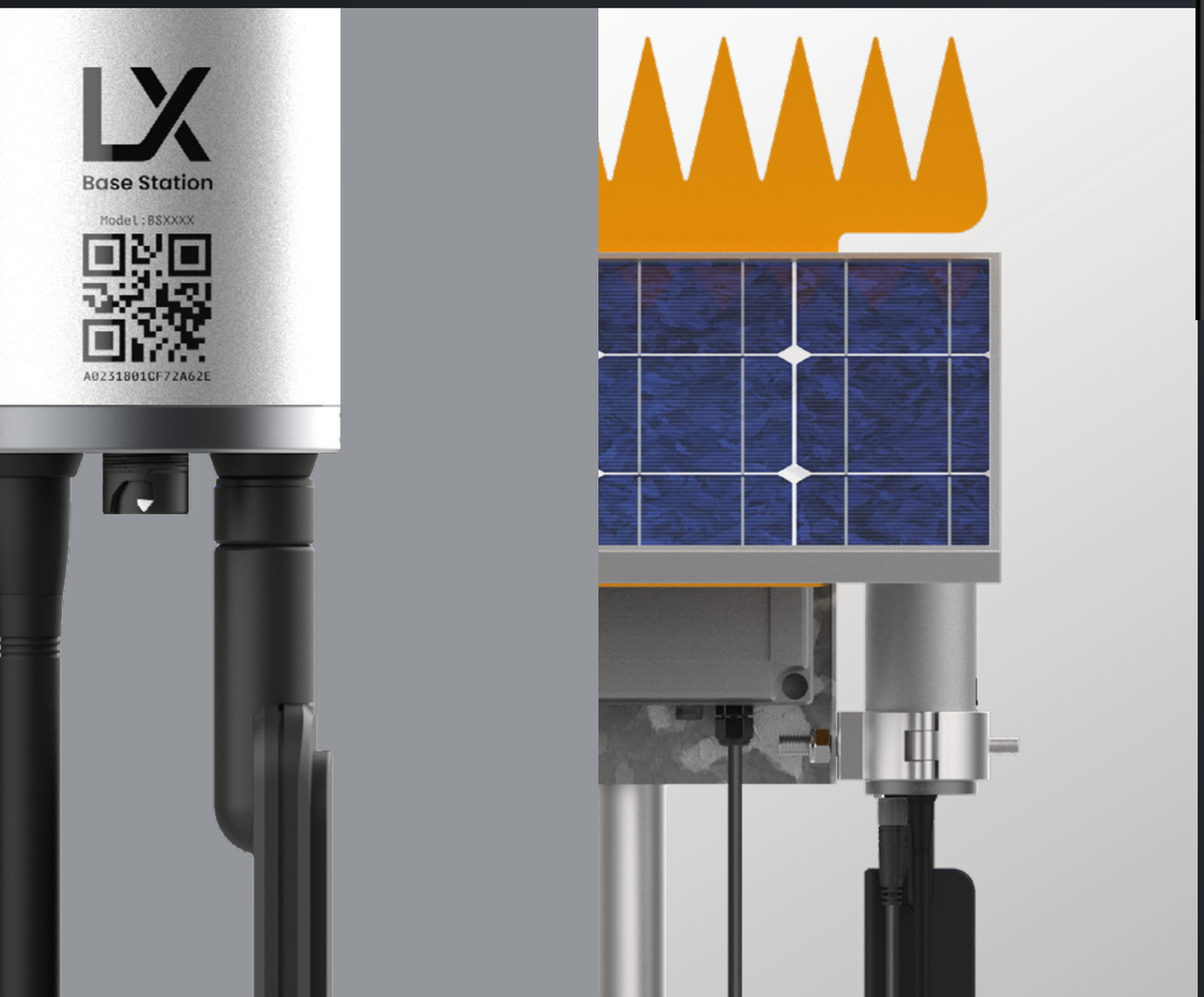
Road Crossing Detection System	53
Fuel Theft Detection System	54
Shed Security System	55
Ramp Crossing Detection	56
Water Flow Sensor	57
Retrofittable Irrigation Flow Monitoring	58
Irrigation Motion Detection System	59
Water Trough Detection Sensor	60
Ultrasonic Water Level Sensor	61
Hydrostatic Liquid Level Sensor	62
Bore and Well Water Level Sensor	63
In-line Pipe Pressure Monitoring System	64
Irrigation Pressure Monitoring System	65
Pump Monitoring System	66
Pump Control Kit	67
Industrial Temperature Sensor	68
Fuel Level Sensor	69
Solar Kit for Base Station (and Blue Node)	70
Solar Panel for Antares Gateway	71
Power Junction	72
Sensor Junction	73
Range Test Unit	74
LTE-M Private LoRa Base Station	75
Installation Service	76
Smart Farm Planning Service	77
LX Product Catalogue - Additional Items	78 - 83
Sensor Combos	84-85
LX Incyt App	86
Contact Details	87
LX Company Awards	88

Δ "You Pay" pricing refers to segmented pricing offered through the **VIC On-Farm IoT Trial,** where for every $1 committed, $2 of grant funding is awarded (up to a $25,000 funding limit), eligible for approved applicants up to January 29, 2021.

Next Generation AgTech IoT

We've created an ecosystem of products that help drive productivity, maximise your time, and create systems for enhanced decision making. Giving you peace of mind and freedom...from anywhere in the world.

Built to last, and designed with you in mind.



Get connected in minutes, not hours

When we say 'Plug n' Play' we mean it - from push and click sensor attatchment, to Smart Sensor auto-configuration, QR code commissioing, and peel n' stick mounting.

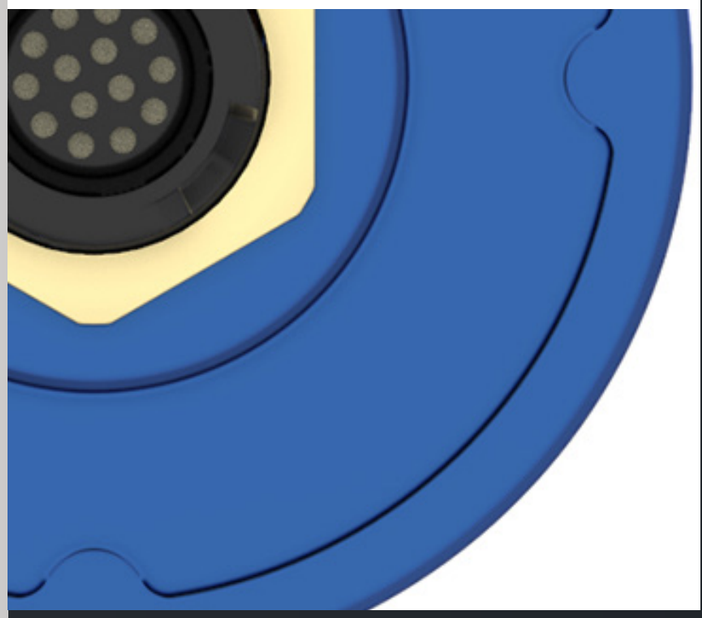
Simply install, commission and view your dashboard.

User centric design, end-to-end

We're passionate about delivering a remarkable, end-to-end, 'sensor to cloud' user experience. From the hardware in the field to the app on your phone, every aspect has been designed user-first without compromise on quality or performance.

A hybrid network approach

Unlock the strengths of the latest IoT technologies such as LTE-M, NB-IoT, LoRaWAN, WiFi and Bluetooth 5.0 to create unique solutions. Enabling ultra-low power performance, cost effective impementations and also providing connectivity for areas without existing coverage.



Your entire farm in your pocket, at a glance

One app, one dashboard, unlimited insights. The breadth of our range means you can collect all the data that's important to you through just ONE connected ecosystem.

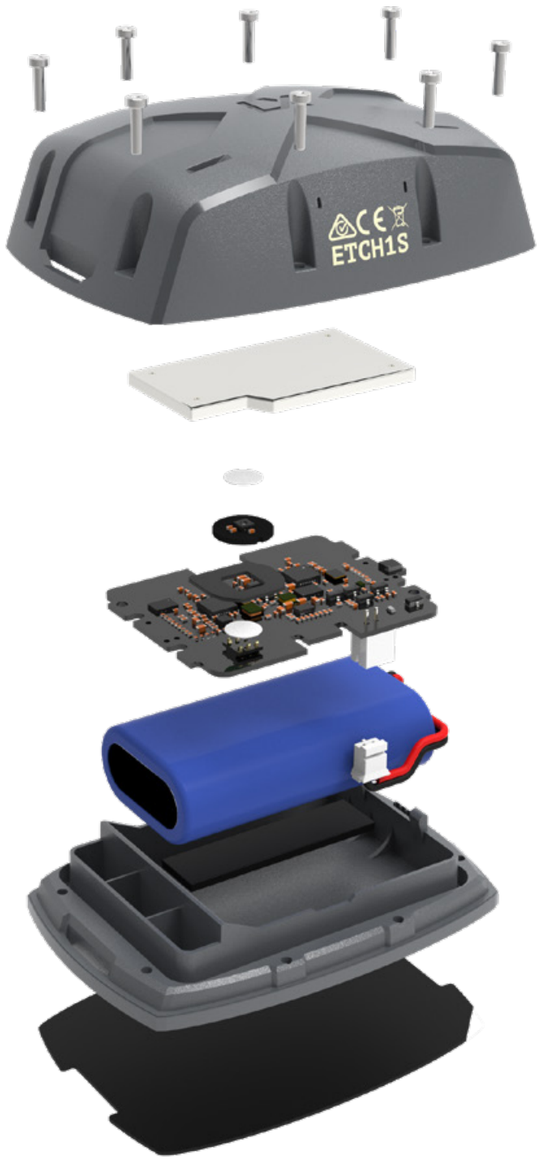
From stock management to asset security, to informed agronomy, do it all with LX.

Built to last

We design to last, build with the best and test to the exteme. From continuous operation on mine sites at -30ºC to the heat of Darwin in summer, our products are rugged and designed for unforgiving environments.

Excellence is in the details

Aesthetically awesome inside and out, our products use industrial grade materials but are designed to look great too. We believe IoT products don't have to be ugly, and excellence should extend to form as well as function.



Remarkable power, that barely uses any

Military grade battery technology and the latest in ultra-low power connectivity ... the ideal combination that enables up to a decade of battery life in many applications.

LX Blue Node

Highly versatile, award winning AgTech IoT telemetry node for connecting LX Smart Sensors to the LX Incyt Dashboard.

The Blue Node is a highly versatile, award winning multi-purpose telementry device. It connects LX Smart Sensors to the LX Incyt Dashboard for accurate and reliable reporting straight to your phone, tablet or computer. The Blue Node is built to last (milled out a solid block of aluminium with a battery life of up to 10 years) and designed support a comprehensive sensor range. It is the heart of the LX Static Sensing product line.

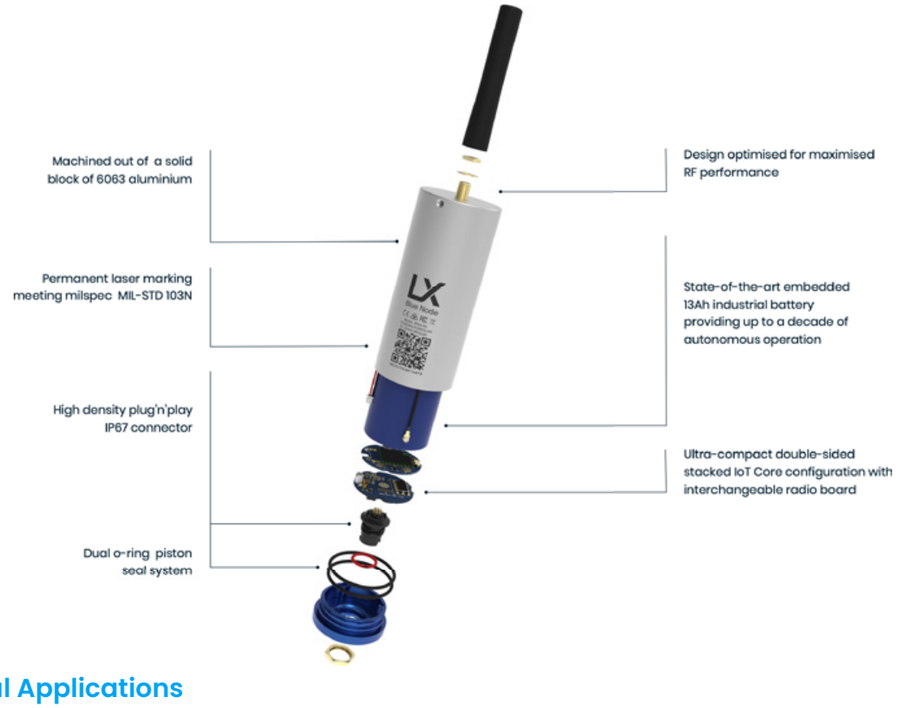
NNNco LoRaWAN Connectivity

Plug 'n Play

Built to last

Data visualisation provided by LX Incyt Dashboard. Installation guide included.

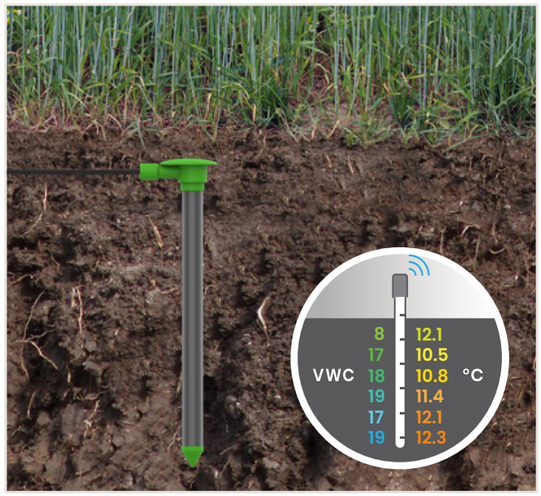
- Battery powered, up to 10 years battery life (depending on sensor and configuration)
- Long range performance (typically 5 - 15km, 25km+ in some installations)
- LoRaWAN TTN & NNNCo connectivity
- Cellular connectivity (LTE-M or 3G) via the LX LoRa Base Station for areas without LoRaWAN connectivity
- Easy installation - Plug n' Play sensor connection
- Smart Sensor enabled - automatic sensor configuration
- Highly ruggeddised and weather-proof for long term operation in harsh environments



Typical Applications

- Water distribition system management
- Water quality analysis
- Microclimate trend analysis
- Cold chain monitoring
- Infrastructure monitoring
- Security alerts
- Remote control/activation

Smart Sensor interfaces	4-20 mA, SDI-12, UART, 0 – 12V analog input, 4 x digital I/O, I2C
Communications	LoRaWAN (TTN & NNNCo), as well as cellular connectivity (LTE-M or 3G) via the LX LoRa Base Station for areas without LoRaWAN connectivity
Battery technology	high quality 13A/hr industrial lithium thionyl-chloride battery with excellent thermal characteristics
Enclosure	IP67 rated. Dual O-ring piston seal system. Waterproof + dust-proof. Machined out of a solid block of 6063 aluminium.
Certifications	RCM, CE & FCC
Thermal range	Environmentally tested from -20°C to +70°C



AquaCheck® Soil Moisture + Temperature Probe 400mm

SKU: KT001

Easy and accurate multilevel soil moisture and temperature measurement to 400mm.

This soil probe reliably and repeatedly records temperature compensated readings for soil moisture at 4 points over a depth of 40cm to monitor groundwater content (GWC), supporting enhanced decision making around nitrogen application, crop selection, crop rotation and irrigation.

The sensor pack comes with an LX Blue Node.

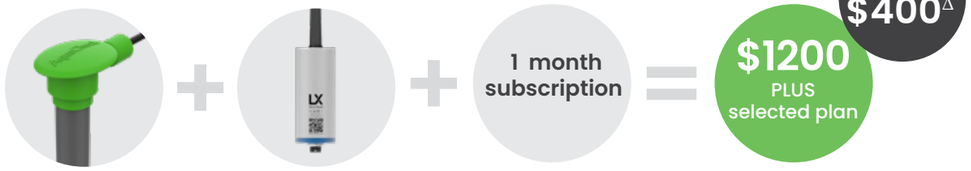
Data visualisation provided by LX Incyt Dashboard. Installation guide included.

NNNco LoRaWAN Connectivity

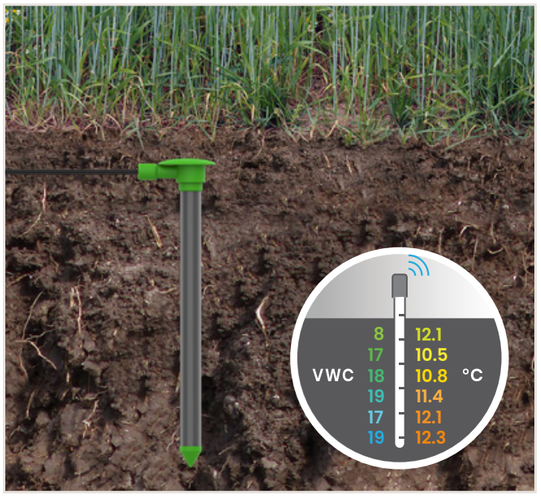
Built to last

Special installation equipment required

Visit product info page



Probe length	400mm with 4 sensor levels
Shaft diameter	33.5mm +/- 0.2mm
Cable length	5m
Sensor spacing	Every 100mm
Operating temperature range	-20°C to + 60°C



AquaCheck® Soil Moisture + Temperature Probe 800mm

SKU: KT002

Easy and accurate multilevel soil moisture and temperature measurement to 800mm.

This soil probe reliably and repeatedly records temperature compensated readings for soil moisture at 6 points over a depth of 80cm to monitor groundwater content (GWC), supporting enhanced decision making around nitrogen application, crop selection, crop rotation and irrigation.

The sensor pack comes with an LX Blue Node.

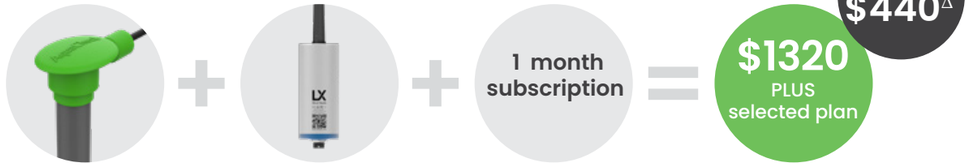
Data visualisation provided by LX Incyt Dashboard. Installation guide included.

NNNco LoRaWAN Connectivity

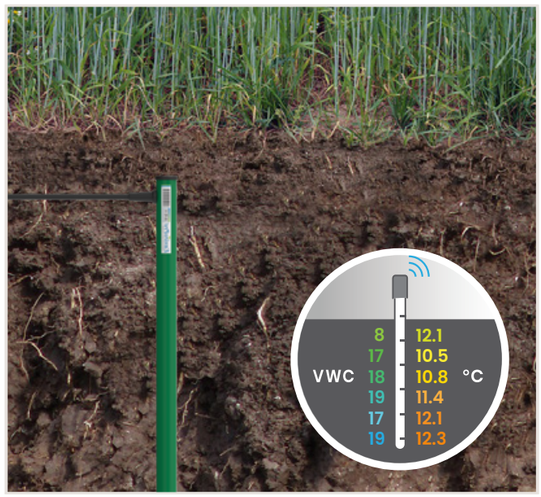
Built to last

Special installation equipment required

Visit product info page



Probe length	800mm with 6 sensor levels
Shaft diameter	33.5mm +/- 0.2mm
Cable length	5m
Sensor spacing	Every 100mm
Operating temperature range	-20°C to + 60°C



EnviroPro® Soil Moisture + Temperature Probe 800mm

SKU: KT003

Easy and accurate multilevel soil moisture and temperature measurement to 800mm.

This soil probe reliably and repeatedly records temperature compensated readings for soil moisture at 8 points over a depth of 80cm to monitor groundwater content (GWC), supporting enhanced decision making around nitrogen application, crop selection, crop rotation and irrigation.

The sensor pack comes with an LX Blue Node.

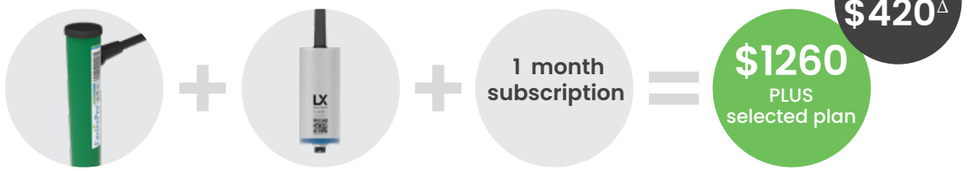
Data visualisation provided by LX Incyt Dashboard. Installation guide included.

NNNco LoRaWAN Connectivity

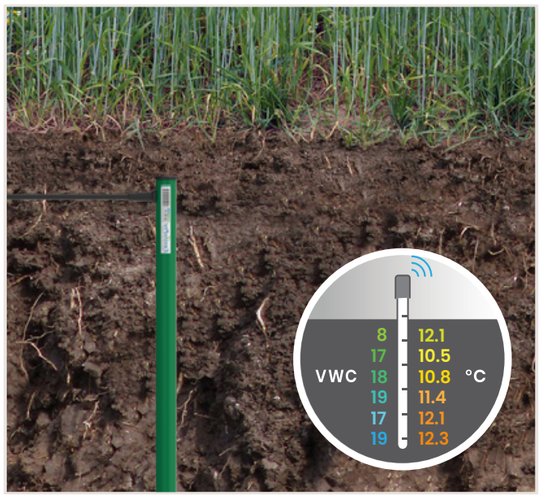
Built to last

Special installation equipment required

Visit product info page



Probe length	800mm with 8 sensor levels
Shaft diameter	33.5mm +/- 0.2mm
Cable length	15m
Sensor spacing	Every 100mm
Operating temperature range	-20°C to + 60°C



EnviroPro® Soil Moisture + Temperature Probe 1200mm

SKU: KT004

Easy and accurate multilevel soil moisture and temperature measurement to 1200mm.

This soil probe reliably and repeatedly records temperature compensated readings for soil moisture at 12 points over a depth of 1200mm to monitor groundwater content (GWC), supporting enhanced decision making around nitrogen application, crop selection, crop rotation and irrigation.

The sensor pack comes with an LX Blue Node.

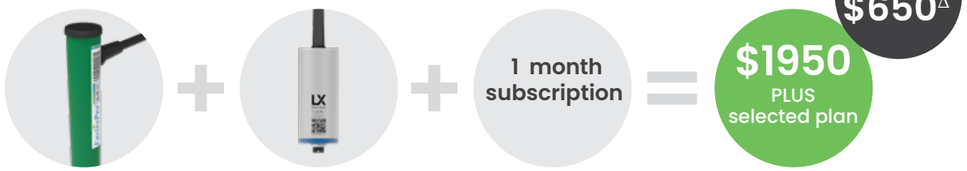
Data visualisation provided by LX Incyt Dashboard. Installation guide included.

NNNco LoRaWAN Connectivity

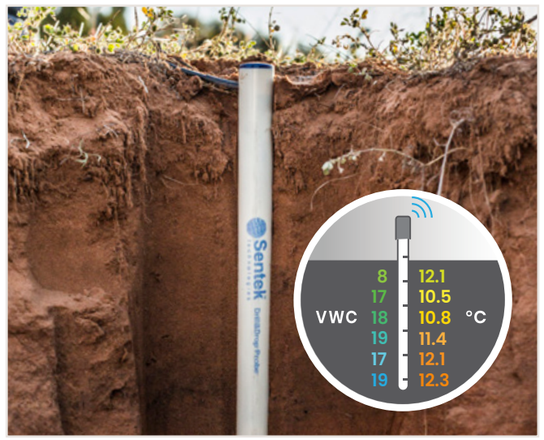
Built to last

Special installation equipment required

Visit product info page



Probe length	1200mm with 12 sensors levels
Shaft diameter	33.5mm +/- 0.2mm
Cable length	15m
Sensor spacing	Every 100mm
Operating temperature range	-20°C to + 60°C



Sentek 600mm Soil Moisture + Temperature Probe

SKU: KT006

Easy and accurate multilevel soil moisture and temperature measurement to 600mm.

Accurate and reliable soil moisture and temperature readings across multiple points with the easy drill and drop soil moisture probe. Get a complete and uninterrupted view of the soil profile with readings every 10cm, ideal for seasonal crops. The sensor pack comes with an LX Blue Node.

Data visualisation provided by LX Incyt Dashboard. Installation guide included.

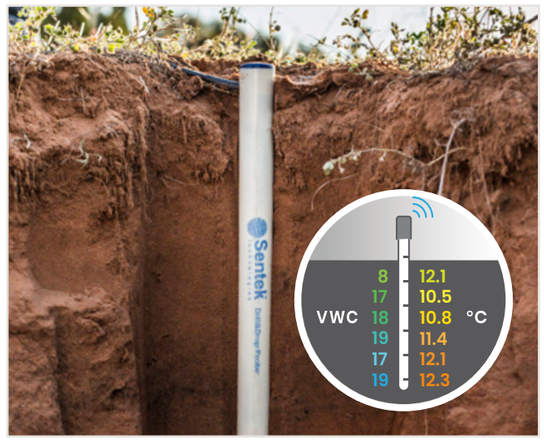
NNNco LoRaWAN Connectivity

Built to last

Special installation equipment required

Visit product info page

Probe length	60cm
Outer probe diameter top	30mm
Outer probe diameter bottom	25mm
Moisture precision	±0.03% vol
Temperature accuracy	±2 °C @ 25 °C
Operating temperature	-20°C to +60°C



Sentek 1200mm Soil Moisture + Temperature Probe

SKU: KT005

Easy and accurate multilevel soil moisture and temperature measurement to 1200mm.

Accurate and reliable soil moisture and temperature readings across multiple points with the easy drill and drop soil moisture probe. Get a complete and uninterrupted view of the soil profile with readings every 10cm, ideal for seasonal crops. The sensor pack comes with an LX Blue Node.

Data visualisation provided by LX Incyt Dashboard. Installation guide included.

NNNco LoRaWAN Connectivity

Built to last

Special installation equipment required

Visit product info page

Probe length	120cm
Outer probe diameter top	30mm
Outer probe diameter bottom	25mm
Moisture precision	±0.03% vol
Temperature accuracy	±2 °C @ 25 °C
Operating temperature	-20°C to +60°C

Water EC/Salinity Sensor

SKU: KT008

Submersible water electrical conductivity sensor (EC/salinity).

This easy to use submersible sensor provides accurate remote reporting on electrical conductivity/ salinity levels in water. Use to enhance decision making around irrigation and spray water sources. The sensor pack comes with an LX Blue Node.

Data visualisation provided by LX Incyt Dashboard. Installation guide included.

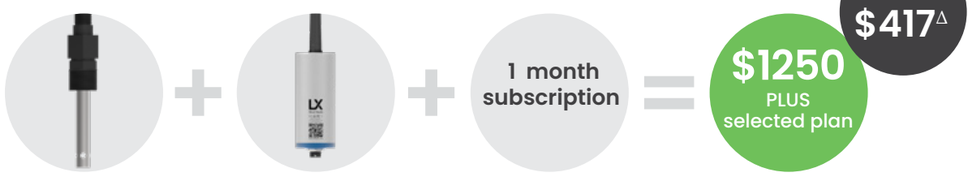
Screen reader support enabled.

NNNco LoRaWAN Connectivity

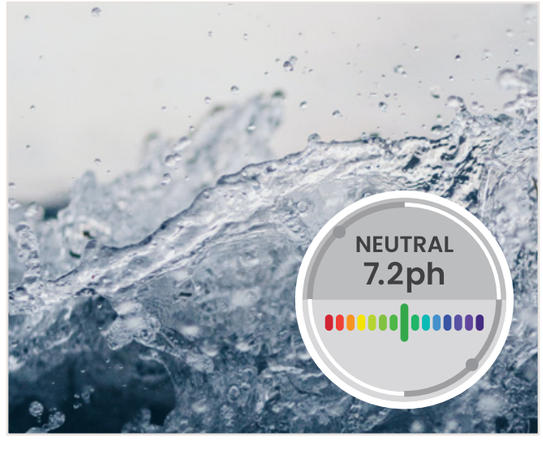
Plug 'n Play

Built to last

Visit product info page



Accuracy	±1%
Enclosure rating	IP68
Medium	Water
Electrode	Titanium alloy
Temperature compensation	Automatic
Operating temperature	-20°C to +80°C



Water pH Sensor

SKU: KT009

Submersible water pH sensor.

Ensure optimal nutrient uptake in plants and make data driven decisions around water application, nitrogen application and spray mix ratios with this pH Sensor. This easy to use submersible sensor is a reliable and accurate way to monitor pH levels.

The sensor pack comes with an LX Blue Node.

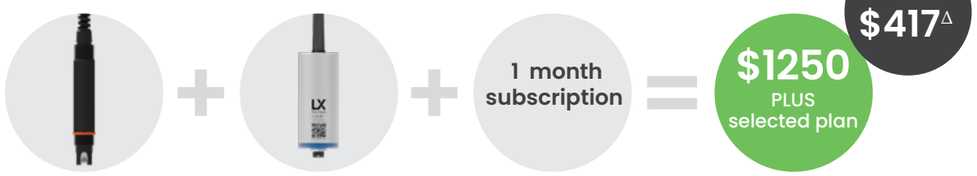
Data visualisation provided by LX Incyt Dashboard. Installation guide included.

NNNco LoRaWAN Connectivity

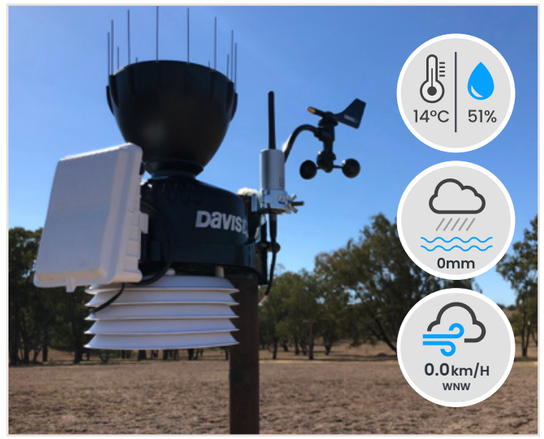
Plug 'n Play

Built to last

Visit product info page



Range	0-14PH
Accuracy	±0.3PH
Resolution	0.01 pH
Enclosure rating	IP68
Dimension Probe	Φ28*160mm



Davis Weather Station

SKU: KT010

A professional and rugged weather station with a versatile sensor suite that combines a rain collector, air temperature, humidity, wind speed and direction into one package.

Designed to meet the guidelines of the World Meteorological Organization, this weather station is an excellent choice for farmers, researchers and agronomists. Providing multiple points of measurement for accurate weather reporting to make key cropping decisions, including ambient temperature, humidity, rainfall, wind speed and direction including wind gusts.

The sensor pack comes with an LX Blue Node.

Data visualisation provided by LX Incyt Dashboard inlcuding dew point, Delta-T and spray advisory features. Installation guide included.

NNNco LoRaWAN Connectivity

Plug 'n Play

Concreting Required

Visit product info page

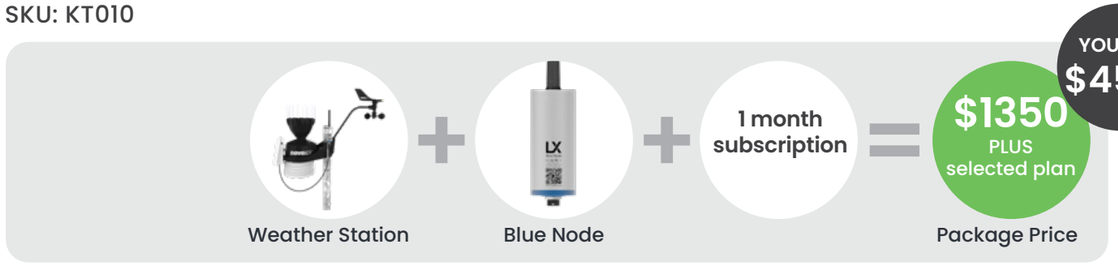
Built to last

Operating temperature	-40° to +65°C
Wind speed sensor	Solid state magnetic sensor
Wind direction sensor	Wind vane with potentiometer
Rain collector type	Tipping spoon, 0.2 mm for metric versions, 214 cm² collection area
Temperature sensor type	PN Junction Silicon Diode
Relative humidity sensor type	Film capacitor element
Housing material	UV-resistant ABS, polypropylene

Optional additions to the Davis Weather Station are UV and Solar Radiation sensors, which help decision processes for seeding rate, row spacing and row heading.

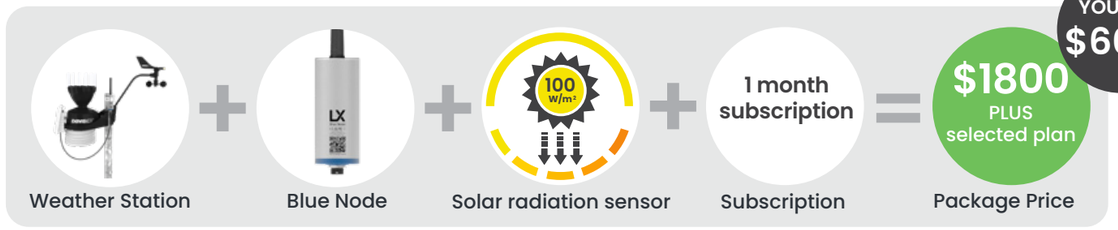
Option 1

SKU: KT010



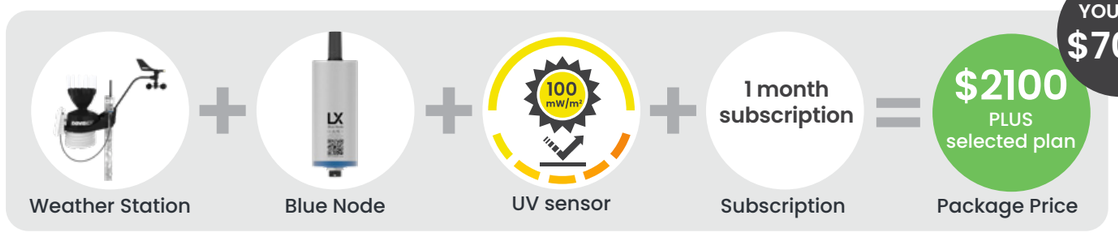
Option 2 (includes mounting shelf)

SKU: KT052



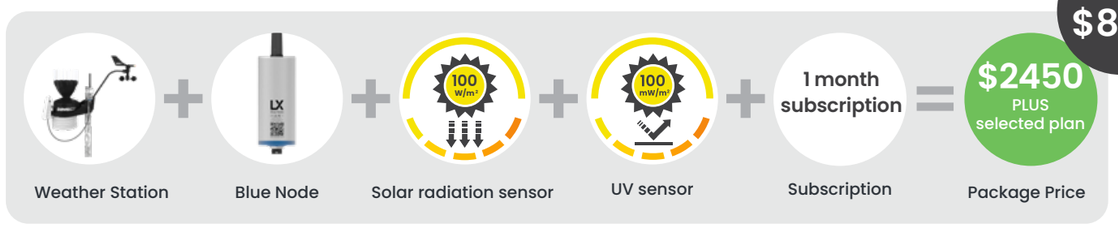
Option 3 (includes mounting shelf)

SKU: KT053



Option 4 (includes mounting shelf)

SKU: KT054



YOU PAY
$217Δ

$650

Davis UV Sensor

SKU: UVD10

UV Sensor for Davis Weather Station

Optional UV Sensor add-on for your Davis Weather Station to measure the sunburning portion of the UV spectrum. It displays the UV index, dose rate, and daily and accumulated dose.

Cut-off ring with a comb structure for cosine response of ± 4% FS. Measures both directly transmitted and scattered UV.

NNNco LoRaWAN Connectivity

Plug 'n Play

Built to last

Visit product info page

YOU PAY
$117Δ

$350

Davis Solar Radiation Sensor

SKU: SRD10

Solar Radiation Sensor for Davis Weather Station

Optional Solar Radiation Sensor add-on for your Davis Weather Station to measure solar radiation for evapotranspiration (ET) and Temperature/ Humidity/Sun/Wind (THSW) Index.

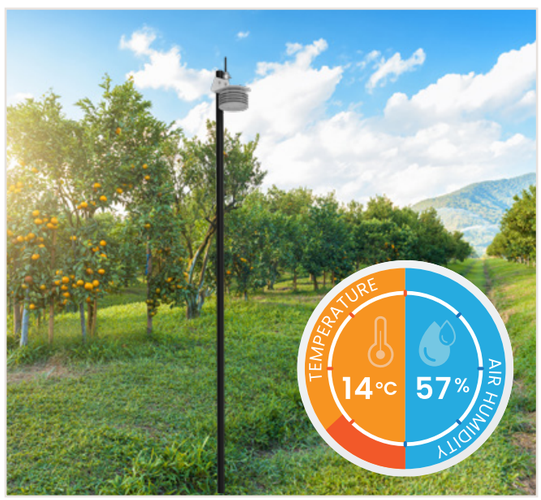
NNNco LoRaWAN Connectivity

Plug 'n Play

Built to last

Visit product info page

Accuracy	+/-5% of full spectrum
Cosine response	=/-3% for angle of incidence from 0 – 75 °C
Temperature coefficient	-0.12% per degree C



Davis Temperature and Humidity Sensor

SKU: KT011

Temperature and humidity sensor with solar radiation shield

Davis Temperature and Humidity sensor with radiation shield for determining hay baling windows, performing canopy temperature measurements or temperature inversion detection when mounted on a 10m pole (next to a weather station or when two units are used for a stand alone inversion pole installation). The sensor pack comes with an LX Blue Node.

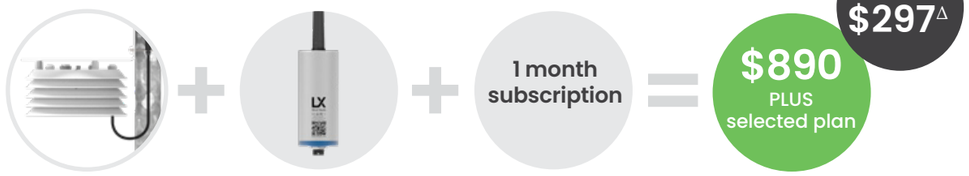
Data visualisation provided by LX Incyt Dashboard. Installation guide included.

NNNco LoRaWAN Connectivity

Plug 'n Play

Built to last

Visit product info page



Temp accuracy	±0.3°C from -40° to 65°C
Humidity accuracy	±2%

Davis Rain Gauge

SKU: KT012

Automatic tipping bucket rain gauge with 0.2mm resolution

Designed to meet the guidelines of the World Meteorological Organization, this self-emptying, tipping-bucket design is exceptionally accurate (to 0.2mm) and automates the sampling and recording of rainfall data, allowing you to gain insights over time.

The sensor pack comes with an LX Blue Node.

Data visualisation provided by LX Incyt Dashboard. Installation guide included.

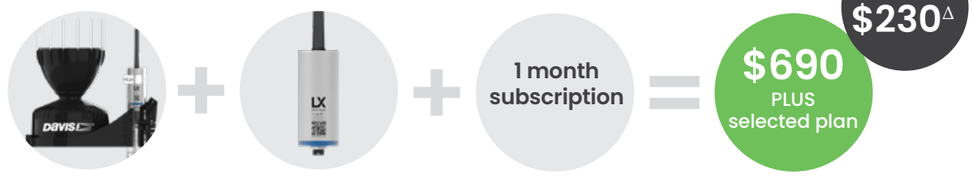
NNNco LoRaWAN Connectivity

Plug 'n Play

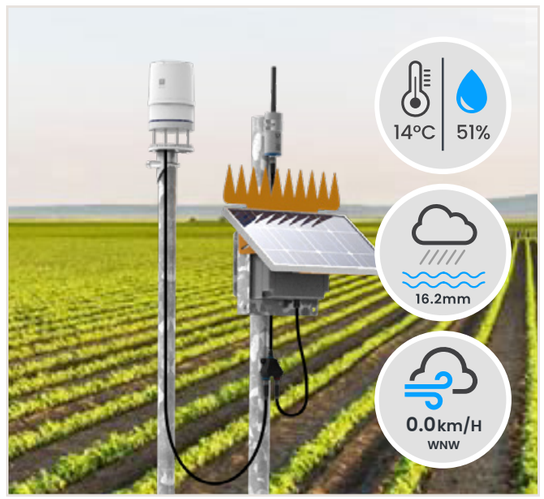
Concreting Required

Built to last

Visit product info page



Sensor type	Tipping bucket with magnetic reed switch
Housing material	UV-stabilized ABS plastic
Accuracy	0.2mm resolution
Package includes	Collector bucket, bird spikes, filter insert and pole mount



Atmos41 Weather Station

SKU: KT013

ATMOS41 is a compact "all-in-one" weather station, combining 12 weather sensors in a single device.

The ATMOS41 weather station measures rainfall, air temperature, relative humidity, vapor pressure, barometric pressure, wind speed, gust and direction, solar radiation, precipitation, lightning strike events (and estimated distance). Rainfall is measured using a unique, precise, drip counter device. The pack includes the Atmos41 Weather Station, an LX Blue Node, a Solar Kit and a Power Junction.

Data visualisation provided by LX Incyt Dashboard. Installation guide included.

NNNco LoRaWAN Connectivity

Plug 'n Play

Built to last

Visit product info page

Precipitation	Range 0-125mm/hr, resolution 0.017mm
Air temperature	Range -40-50°C, resolution 0.1 °C
Relative humidity	Range 0-100%, Resolution 0.1%
Wind speed	Range 0 - 60m/s, Resolution 0.01m/s;
Wind gust	Range 0 - 60m/s, Resolution 0.01m/s
Wind direction	0 - 359 degrees, Resolution 1 degree

Leaf Wetness Sensing System

SKU: KT014

Accurate leaf wetness and ice monitoring for plants.

Accurately measure leaf wetness (presence and duration) and ice formation. Water will condense and evaporate like a real leaf providing enhanced insights around the application of fungicides and early disease detection.

The sensor pack comes with an LX Blue Node.

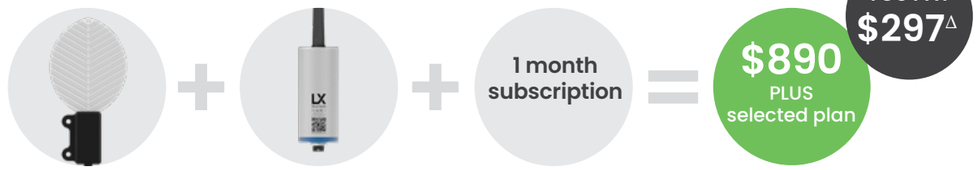
Data visualisation provided by LX Incyt Dashboard. Installation guide included.

NNNco LoRaWAN Connectivity

Plug 'n Play

Built to last

Visit product info page



Operating temp. range	–20 °C to +70 °C
Cable length	5 m

Spray Advisory System

SKU: KT015

Advanced decision support for determining optimium spray windows based on a variety of factors including temperature inversion, wind speed, temperature and Delta-T.

The LX Spray Advisory System takes into account a number of factors including temperature, humidity, wind speed, Delta-T and temperature inversion conditions to provide a go/no go analysis for spraying. The System can advise when the conditions are favourable, and if they change to being unfavourable during the course of spraying. This solution draws upon environmental data from a number of sensors.

Data visualisation provided by LX Incyt Dashboard. Installation guide included.

Multi-sensor ecosystem

Plug 'n Play

Built to last

Visit product info page

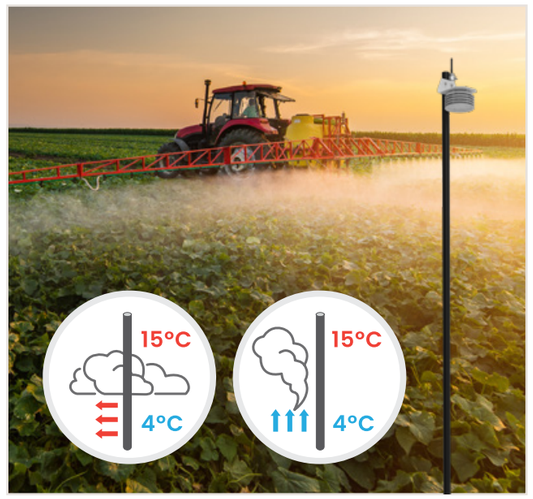
System contents:

1 x Davis Weather Station

1 x Davis Temperature & Humidity Sensor

2 x Blue Nodes

**Requires 10m pole or longer for installation (not included in price).*



Temperature Inversion Detection

SKU A: KT055
SKU B: KT016

Temperature inversion sensor to enable informed decision support around high spray drift risk conditions.

Spray drift can greatly impact the effectiveness of spraying, with some industry experts estimating 90% of spray drift cases are caused by inversion drift. Automatic identification of temperature inversion (including clear air inversion) helps prevent the risk of spraying during inversion conditions.

Data visualisation provided by LX Incyt Dashboard. Installation guide included.

NNNco LoRaWAN Connectivity

Plug 'n Play

Built to last

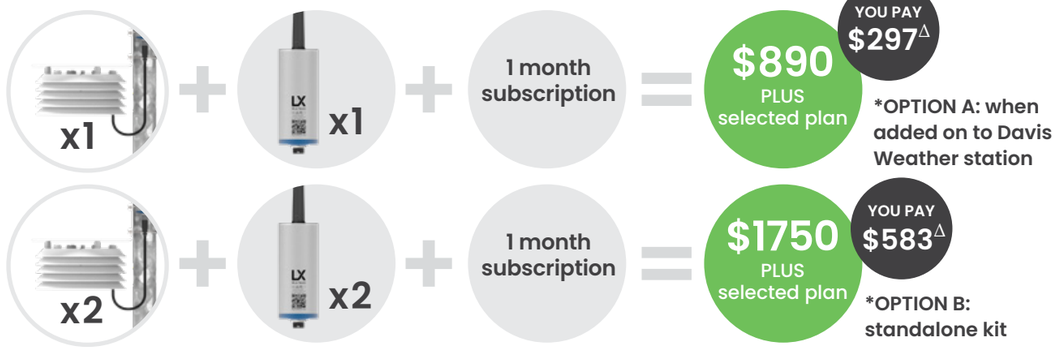
Visit product info page

System contents:

2 x Davis Temperature & Humidity sensors

2 x Blue Nodes

**Requires 10m pole or longer for installation (not included in price).*



Frost Detection System

SKU: KT017

Be alerted of frost events and their severity (duration and temperature) at point locations.

Detailed knowledge of frost events can help optimise future crop prescriptions and activities moving forward. The LX Frost Detection System can be used provide alerts when frost events occur and provide insight into the severity and duration of the frost.

Temperature accuracy: ±0.5°C @ 25°C

Data visualisation provided by LX Incyt Dashboard. Installation guide included.

Plug 'n Play

Built to last

Track + Sense

Visit product info page

System contents

5x Polaris Track + Sense

Portable Rodent Activity Monitor

SKU: KT018

Portable laser based sensor system for monitoring rodent activity levels.

Timing of control interventions, co-ordination with adjacent properties and informed decisions around dose level are important factors in optimising rodent control interventions.

The Rodent Detection System uses a portable laser based retroreflective beam break sensor to provide early alerting around rodent activity levels.

Operating range up to 10m.

Data visualisation provided by LX Incyt Dashboard. Installation guide included.

NNNco LoRaWAN Connectivity

Plug 'n Play

Built to last

Visit product info page

System contents:

1x Laser Beam Break Sensor
1x Blue Node
1x Solar Kit
1x Power Junction

Next generation tracking. Rugged. Robust. Reliable.

Tracking and sense capability is at the core of many IoT applications and when it comes to location based applications, the needs are many and varied. Finding, logging, geofencing, alerting and sensing across various networks both in outdoor and indoor operating environments. A single tracker simply can't do it all.

The LX trackers have been designed to work in conjunction with each other across a wide range of use cases to provide sophisticated solutions. They are also equiped with the option of advanced sense capablity so you can not only track an asset's path or last known location but get insight into motion, tilt, run-time, lumonosity, air quality, air pressure, temperature and humdity.

Antares LTE-M Tracker & Gateway

Visit product info page

SKU: ETCH1A-GW

Track and deploy machinery area networks with Antares Gateway.

Track key assets such as vehicles and machinery with the Antares LTE-M tracker. Rugged and loaded with next generation technology for indoor and outdoor tracking support, Antares is capable of deploying a Bluetooth machinery area network around the asset enabling the detection of beacon based devices such as Lyra. Provides location history for assets that move regularly such as trucks, utes and tractors; create geofences; or use in static installations for detecting Lyras in warehouses and machinery sheds. Also capable of monitoring asset activity level, tilt/angle and temperature.

Power from a 12V vehicle supply for mobile applications, or for static applications plug into mains power or a solar kit.

Data visualisation provided by LX Incyt Dashboard. Installation guide included.

Built to last

Track + Sense

Indoor/outdoor use

Mains/Solar/12V Automotive Power options

Radio	LTE-M/NB-IoT, BLE 5, WiFi and GPS
Region	Multi region Cat M1/NB1 Supported bands: 2, 3, 4, 5, 8, 12, 13, 20, 28
Firmware upgrade	Via LX Incyt App over BLE or Cellular
Power	Power from mains via USB-C power pack, 12V vehicle supply or Solar Kit
Location	GPS, WiFi geolocation, BLE Beacon and Scan
Size + weight	50 x 110 x 114 mm, 250g
Enclosure Rating	IP67 / IK07
Mounting options	VHB + screws or rivets
Storage	12 months
Certifications	CE, RCM, BT Sig
Temp. range	-10°C to +60°C (operational temp range -20°C to +80°C)

$395 PLUS selected plan

YOU PAY $132Δ

Antares LTE-M Tracker & Gateway with Advanced Sense

Visit product info page

SKU: ETCH2S-GW

Go beyond just tracking with intelligent sensing.

Equipped for indoor or outdoor use, this LTE-M gateway goes beyond tracking and geofencing with advanced environmental sense capablity. It has the ability to sense a range of environmental factors including temperature, relative humidity, volatile organic compounds (air qualty index), air pressure and luminosity (in addition to, motion detection, asset activity level and tilt/angle).

Power from a 12V vehicle supply for mobile applications, or for static applications plug into mains power or a solar kit.

Data visualisation provided by LX Incyt Dashboard. Installation guide included.

Built to last

Track + Sense

Indoor/outdoor use

Mains/Solar/12V Automotive Power options

Radio	LTE-M/NB-IoT, BLE 5, WiFi and GPS
Region	Multi region Cat M1/NB1 Supported bands: 2, 3, 4, 5, 8, 12, 13, 20, 28
Firmware upgrade	Via LX Incyt App over BLE or Cellular
Power	Power from mains via USB-C power pack, 12V vehicle supply or Solar Kit
Location	GPS, WiFi geolocation, BLE Beacon and Scan
Size + weight	50 x 110 x 114 mm, 250g
Enclosure Rating	IP67 / IK07
Mounting options	VHB + screws or rivets
Storage	12 months
Certifications	CE, RCM, BT Sig
Temp. range	-10°C to +60°C (operational temp range -20°C to +80°C)

$495 PLUS selected plan

YOU PAY $165Δ

Polaris LTE-M Tracker

SKU: ETCH1A

Next generation LTE-M asset tracking with ultra-long life battery and intelligent sense capablity.

Next generation LTE-M asset tracking with ultra-long life battery and intelligent sense capablity to ensure you can locate key assets. Protect against equipment theft and improve logistics planning with this GPS tracker featuring WiFi geolocation to enable indoor and outdoor operation. Perfect for unpowered assets that move less frequently such as field bins, trailers and implements. Also capable of monitoring asset activity level, tilt/angle, temperature and deploying a Bluetooth machinery area network for the detection of Lyras during transmission periods. It has up to 5 years battery life (once per day reporting) and easy peel and stick installation. It can also be mounted with cable ties, or fastened to an asset using security screws or rivets with the optional security bracket accessory (sold separately).

Plug 'n Play · Built to last · Track + Sense · Indoor/ outdoor use

Visit product info page

Data visualisation provided by LX Incyt Dashboard. Installation guide incl.

Radio	LTE-M/NB-IoT, BLE 5, WiFi and GPS
Region	Multi region Cat M1/NB1 Supported bands: 2, 3, 4, 5, 8, 12, 13, 20, 28
Firmware upgrade	Via LX Incyt App and over BLE or Cellular
Battery	Replaceable Industrial Lithium Thionyl Chloride primary battery pack, ~ 5yrs
Typical behaviour	Continuously beaconing, performing daily Wi-Fi scan, GPS lock, LTE-M upload + config check
Location Sense	GPS, WiFi geolocation, BLE Beacon and Scan
Size + weight	39 x 80 x 114 mm, 300g
Enclosure Rating	IP68/IK10
Mounting options	VHB tape + screw , cable tie, security bracket
Storage	9 months
Certifications	CE, RCM, BT Sig
Temp. range	+5°C to +40°C (operational temp range -20°C to +60°C)

Polaris LTE-M Tracker with Advanced Sense

SKU: ETCH2S

Next generation LTE-M asset tracking with ultra-long life battery and advanced sense capablity.

All the tracking capabilties of our standard Polaris LTE-M Tracker, but with enhanced environmental sensing capablity including temperature, humidity, air pressure and volatile organic air compounds (air quality index). Track high value assets that require storage and transport between specific environmental limits.

Plug 'n Play · Built to last · Track + Sense · Indoor/ outdoor use

Visit product info page

Data visualisation provided by LX Incyt Dashboard. Installation guide included.

Radio	LTE-M/NB-IoT, BLE 5, WiFi and GPS
Region	Multi region Cat M1/NB1 Supported bands: 2, 3, 4, 5, 8, 12, 13, 20, 28
Firmware upgrade	Via LX Incyt App and over BLE or Cellular
Battery	Replaceable Industrial Lithium Thionyl Chloride primary battery pack, ~ 5yrs
Typical behaviour	Continuously beaconing, performing daily Wi-Fi scan, GPS lock, LTE-M upload + config check
Location Sense	GPS, WiFi geolocation, BLE Beacon and Scan
Size + weight	39 x 80 x 114 mm, 300g
Enclosure Rating	IP68/IK10
Mounting options	VHB tape + screw , cable tie, security bracket
Storage	9 months
Certifications	CE, RCM, BT Sig
Temp. range	+5°C to +40°C (operational temp range -20°C to +60°C)

Portable Hay Baling Solution

SKU: KY019

Receive an alert when temperature and humidity conditions are suitable for baling.

The Portable Hay Baling Alert System takes the guess work out of deciding when to bale. It consists of a portable Polaris Track & Sense that can be either left at the baling site or connected to the baling tractor. The System logs temperature and humidity, and creates alerts for both when conditions are right for baling, as well as when conditions are no longer favourable and it is recommended the operator stops baling.

Data visualisation provided by LX Incyt. Dashboard. Installation guide included.

Intelligent sense | Plug 'n Play | Built to last

Visit product info page

System contents

1 x Polaris Track and Sense

Power	Replaceable Industrial Lithium Thionyl Chloride primary battery pack, ~3 Yrs
Temperature accuracy	±0.5°C @ 25°C
Humidity accuracy	±3% RH accuracy

Flood Fence Monitoring Solution

SKU: KT020

Monitor flood fence crossings for fence sag from flood damage events.

The Flood Fence Monitoring Solution includes a Polaris unit that can be connected to your flood fences to generate alerts when orientation changes from fence sag indicating a broken strain wire. Also capable of detecting the status of cyclone based drop gates.

Data visualisation provided by LX Incyt Dashboard. Installation guide included.

Intelligent sense | Plug 'n Play | Built to last

Visit product info page

System contents

1x Polaris tracker

Battery	Replaceable Industrial Lithium Thionyl Chloride primary battery pack, ~ 5yrs
Enclosure rating	IP68/IK10

Lyra Bluetooth Tracking Beacon

SKU: ETBL2A

Compact ultra-long life Bluetooth Low-Energy beacon for low cost asset monitoring.

Track + Sense | Battery Powered | Built to last

The Lyra is a small beacon device utilising Bluetooth Low-Energy technology to achieve a battery life of up to 5 years. Provides the last known location region of your assets since contact with a Bluetooth listening device such as the Antares or Polaris during a listening window. Its small size, low cost and easy peel and stick installation makes it ideal for smaller and lower value assets that are typically stored and transported within range of an Antares. Has internal temperature sensor for reporting and recording thermal levels.

Data visualisation provided by LX Incyt Dashboard. Installation guide included.

Visit product info page

Radio	Bluetooth Low-Energy
Battery	Non replaceable Lithium technology
Typical behaviour	Beaconing every few seconds with last sensor reading included in beacons (refreshed every 15 minutes)
Size and weight	21 x 38 x 45 mm, 36g
Enclosure Rating	IP68 / IK07
Mounting	VHB high strength adhesive, security metal bracket, cable-tie
Certifications	CE, RCM, BT Sig
Temp range	Temp range: -20°C to +60°C

Lyra Bluetooth Track & Sense Beacon

SKU: ETBL1S

Compact ultra-long life Bluetooth Low-Energy beacon for low cost asset monitoring with sense capablity.

Battery Powered | Built to last | Track + Sense

Lyra Sense includes onboard temperature, humidity, and activity level with logging capability to monitor environmental conditions over time. With easy peel and stick application and a battery life of up to 3 years, Lyra Sense is perfect for condition monitoring applications that require relatively high frequency transmission (hourly) with power efficient performance. Provides last known location region of your assets since contact with a Bluetooth listening device such as the Antares or Polaris during a listening window.

Data visualisation provided by LX Incyt. Dashboard. Installation guide included.

Visit product info page

Radio	Bluetooth Low-Energy
Battery	Non replaceable Lithium technology
Typical behaviour	Beaconing every few seconds with last sensor reading included in beacons (refreshed every 15 minutes)
Size and weight	21 x 38 x 45 mm, 36g
Enclosure Rating	IP66 / IK06, sensor port must be kept free of liquid and dust
Mounting	VHB high strength adhesive, security bracket, cable-tie
Certifications	CE, RCM, BT Sig
Temp range	+5°C to +40°C
Temperature Sensing	±0.4°C
Accelerometer Sensing	3 Axis
Humidity	±4% RH accuracy

Lyra Stock Monitoring Kit

SKU: KT020

Lyra stock collar for identifying stock at frequently visited locations such as water sources, key nexus points and yards using Antares gateways.

The Lyra Animal Collar Pack can be used to identify stock (including sheep and cattle) at key locations. The pack includes 250 Lyra stock collars and 5 solar powered Antares LTE-M gateways that can be placed at key locations such as water sources, nexus points and yards. The system identifies, records and reports when the stock come within range of the Antares units enabling alert generation for stock that have not been seen for prolonged periods.

Data visulisation provided by LX Incyt Dashboard. Installation guide included.

Plug 'n Play

Built to last

Mains/Solar/12V Automotive Power options

Visit product info page

System contents:

5 x Antares LTE-M Gateways
5 x Solar Kits
250 x Lyra animal collars
5 x Power Junctions

Lyra behaviour	Beaconing every few seconds
Lyra power	Battery, lasts up to 5 years
Antares listening mode	Continuous

Hay Bale Monitoring System

SKU Basic: KT021
SKU Advanced: KT056

Be alerted when hay degredation is likely to be occuring and prevent combustion of hay bales.

The Hay Bale Monitoring System consists of number of Lyras sensors reporting to a BLE gateway device (Polaris or Antares). The Lyra sensors are inserted into a representative number of hay bales during storage. These sensors monitoring the temperature inside the bale and in the event of a temperature rise, the system generates an alert. In the event of likely hay degredation or combustion risk, appropriate action can be taken (selling, accelerating useage or breaking apart the stack).

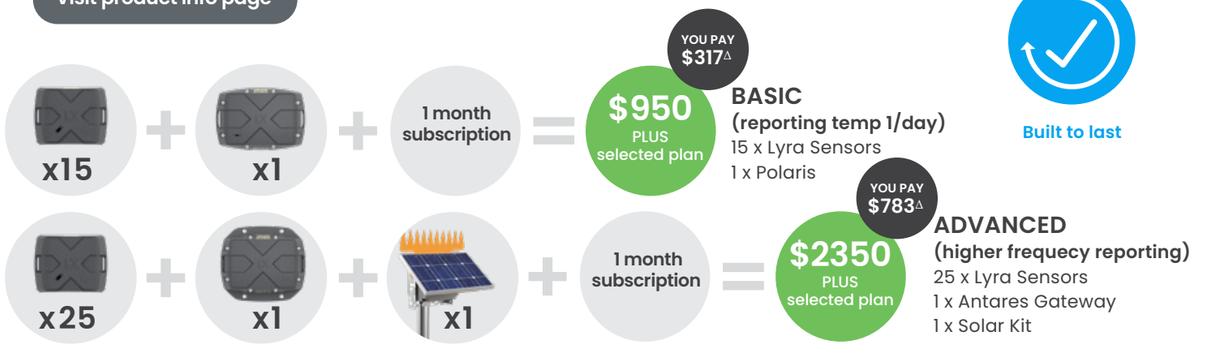
Data visualisation provided by LX Incyt Dashboard. Installation guide incl.

Track + Sense

Plug 'n Play

Built to last

Visit product info page



Asset Tracking Kits

Get a birds eye view of your key assets to help optimise logisitics planning, team collaboration, asset utilisation and improve security.

Track

Plug 'n Play

Built to last

The asset tracker kits are designed to help make locating your farm assets easy. View your key assets on one central map to help optimise logisitics planning, team collaboration, asset utilisation and improve security on-farm and in the supply chain.

Antares Automotive

Suitable for automotive/machinery tracking applications where higher frequency reporting and/or a machinery area network is required. Most approriate for assets that are:

a) fast and/or frequently moving,

b) carry other assets that may have Lyras, or

c) connect to other assets that may have Lyras.

Recommended asset installations include: ute, truck, prime mover, side by side, quad bike, tractor, header, sprayer etc.

Antares Mains

Suitable for fixed installations to listen for Lyra BLE devices where mains power is available such as machinery, shearing, pump and fruit packing sheds. Recommended use in locations where equipment is stored or cold chain monitoring is relevant (e.g., fruit packing shed).

Antares Solar

Suitable for fixed installations to listen for Lyra BLE devices in remote unpowered locations such as water sources, hay sheds, property access locations, unpowered machinery sheds, stock yards, key gates/stock access points etc. Recommended use for stock tracking at key points like water sources, gates and yards.

Lyra

BLE beacon technology that shows where the asset was last seen/last picked by an Antares device durign a listening window.
Most appropriate for use with:

a) An item that travels in a vehicle that has an Antares machinery area network deployed (e.g., a chainsaw that travels in the back of a ute that has an Antares gateway),

b) An asset that is often stored in a shed that has an Antares gateway (e.g., a machinery shed)

c) Small assets (like a chainsaw, welder, power tools), or items that are low cost/low value but still may warrant location (e.g., chemical drums)

Polaris

GPS asset location suitable for use with unpowered assets and vehicles when less frequent location reporting is acceptable. Most appropriate for assets that are moved from time to time, or move on their own accord but may not warrant an Antares.

Recommended asset installations include: trailers, field bins, farm implements (air seeder, plough, auger etc.). Also suitable for ute, truck, prime mover, side by side, quad bike, tractor, header, sprayer etc.

Asset Tracker Starter Kit

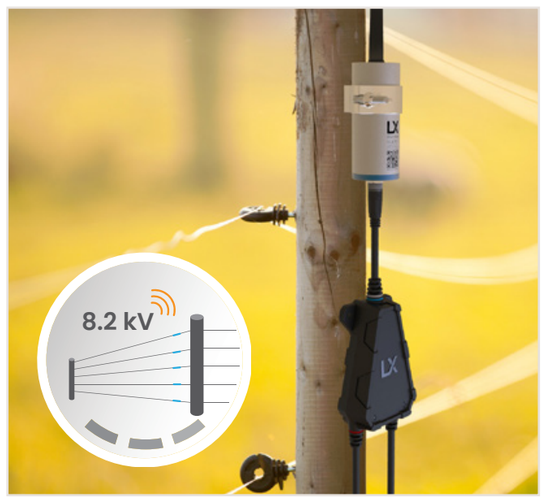
SKU: KT022

Asset Tracker Pro Kit

SKU: KT023

Asset Tracker Advanced Kit

SKU: KT024



Electric Fence Monitor

SKU: KT025

Electric fence voltage measurement with reporting for fault conditions.

Monitor the status and voltage of your electric fence at remote locations with this easy to install system. The sensor monitors the peak pulse voltage from any electric fence so you can quickly be alerted to faults and issues. Detects marginal performance in addition to complete faults. SMS alerts supported.

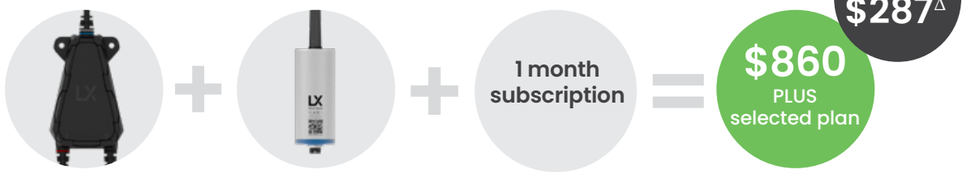
The sensor pack comes with an LX Blue Node.
Data visualisation provided by LX Incyt Dashboard.
Installation guide included.

NNNco LoRaWAN Connectivity

Plug 'n Play

Built to last

Visit product info page



Input	Compatible with any energiser with a voltage up to 15kV
Operating temp. range	-20°C to + 80°C
Enclosure	IP68

Gate Detection System

SKU: KT026

Remotely monitors the status of gates and doors.

This pack gives you the ability to remotely view the status of gates on your property, using this robust, stainless steel sensor.

The sensor pack comes with an LX Blue Node.

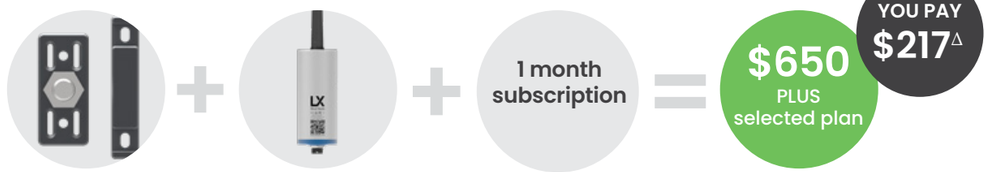
Data visualisation provided by LX Incyt Dashboard.
Installation guide included.

NNNco LoRaWAN Connectivity

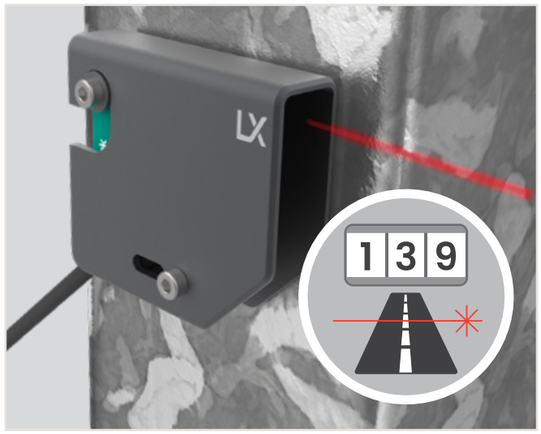
Plug 'n Play

Built to last

Visit product info page



Operating temperature range	-20°C to +70°C
Compatibility	Operates when mounted on metal structures and also within non-ferrous materials such as wood, plastic or aluminium



Laser Beam Break Sensor Kit

SKU Kit 1: KT027
SKU Kit 2: KT028

Laser based retroreflective sensor for applications in which a beam break corresponds to a critical event.

The beam break sensor is a laser retroreflective sensor with 10m range. It comes with mounting accessories, reflector, power junction and solar or mains power kit. Suitable for applications such as vehicle crossing detection, fuel theft alert and shed entry detection. Unlike PIR sensors, this detection sensor works for both small or large objects, slow or fast motion and cold or hot objects. The sensor pack comes with an LX Blue Node.

Data visualisation provided by LX Incyt Dashboard. Installation guide included.

Plug 'n Play

Built to last

NNNco LoRaWAN Connectivity

Mains/Solar Powered

Visit product info page

Kit 1 (power supply option) contents:

1 x laser retroreflective sensor with bracket system and reflector
1 x power junction
1 x Blue Node
1x mains supply kit

YOU PAY $440Δ

$1320 PLUS selected plan

Kit 2 (solar powered option) contents:

1x laser retroreflective sensor with bracket system and reflector
1x power junction
1x Blue Node
1x solar kit

YOU PAY $650Δ

$1950 PLUS selected plan

Detection range	Up to 10m (5m in rain/dusty conditions)
Sensor technology	High speed laser retrofelective beam
Laser	6.7nJ pulse @ 680nm (red)
Laser classification	Class 1
Power source	solar kit (remote locations) or mains (shed based)

Road Crossing Detection System

SKU: KT028

Detect vehicles and other moving objects entering or leaving your property.

This system provides a solar powered vehicle/object detection system using retroflective laser technology. The solution can detect fast and slow moving vehicles, does not rely on heat detection and works during both night and daytime.

Data visualisation provided by LX Incyt Dashboard. Installation guide included.

NNNco LoRaWAN Connectivity

Plug 'n Play

Built to last

Visit product info page

Solar powered

Kit contents:

1 x laser retroreflective sensor with bracket system & reflector
1 x power junction
1 x Blue Node
1 x solar kit

YOU PAY $650Δ

$1950 PLUS selected plan

Detection range	up to 10m (5m in rain/dusty conditions)
Sensor technology	High speed laser retrofelective beam
Laser	6.7nJ pulse @ 680nm (red)
Laser classification	Class 1
Power source	Solar kit

Fuel Theft Detection System

SKU: KT028

Detect and be alerted of on-farm fuel bowser activity.

Be alerted of fuel bowser activity to help protect against fuel theft. The system uses high speed beam break technology to detect bowser activity. The kit includes the Laser Beam Break Sensor, Solar Kit, Blue Node, and Power Junction.

Data visualisation provided by LX Incyt Dashboard. Installation guide included.

NNNco LoRaWAN Connectivity

Plug 'n Play

Built to last

Visit product info page

Solar powered

Kit contents:

1 x laser retroreflective sensor with bracket system & reflector
1 x power junction
1 x Blue Node
1 x solar kit

Detection range	up to 10m (5m in rain/dusty conditions)
Sensor technology	High speed laser retrofelective beam
Laser	6.7nJ pulse @ 680nm (red)
Laser classification	Class 1
Power source	Solar kit

Shed Security System

SKU: KT027

Detect and be alerted of on-farm shed entry activity.

Protect machinery and assets in your sheds. This system uses beam break technology to detect people, vehicles and objects entering and exiting your shed. The kit includes the Beam Break Sensor, Blue Node, and Power Junction, mains adaptor and mains cable.

Data visualisation provided by LX Incyt Dashboard. Installation guide included.

NNNco LoRaWAN Connectivity

Plug 'n Play

Built to last

Visit product info page

Mains

Kit contents:

1 x laser retroreflective sensor with bracket system & reflector
1 x power junction
1 x Blue Node
1 x mains supply kit (mains cable + adaptor)

Detection range	up to 10m (5m in rain/dusty conditions)
Sensor technology	High speed laser retrofelective beam
Laser	6.7nJ pulse @ 680nm (red)
Laser classification	Class 1
Power source	Mains (shed based)

Ramp Crossing Detection

SKU: KT028

Detect vehicles and stock crossing ramps on your property.

Detect when vehicles and animals cross a ramp. This system uses beam break technology to detect when an object (animal, vehicle, etc.) crosses your ramp. The kit includes the Beam Break Sensor, Solar Kit, Blue Node, and Power Junction.

Data visualisation provided by LX Incyt Dashboard. Installation guide included.

NNNco LoRaWAN Connectivity

Plug 'n Play

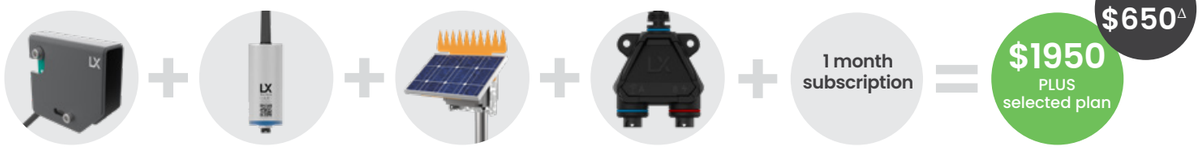
Built to last

Solar powered

Visit product info page

Kit contents:

1 x laser retroreflective sensor with bracket system & reflector
1 x power junction
1 x Blue Node
1 x solar kit



Detection range	up to 10m (5m in rain/dusty conditions)
Sensor technology	High speed laser retrofelective beam
Laser	6.7nJ pulse @ 680nm (red)
Laser classification	Class 1
Power source	Solar kit

Water Flow Sensor

SKU: KT029

Accurately monitor water flow rate in irrigation and stock water distribution systems.

The Water Flow Sensor allows you to monitor the performance of your water and irrigation systems. It can assist in leak detection, understanding flow rates from pumps, bores and tank inlets or outlets, irrigation times, and allows you to monitor and control the degree of irrigation delivered to crops. The sensor can also aid in understanding water distribution usage - detecting and understanding abnormal water patterns. The sensor pack comes with an LX Blue Node.

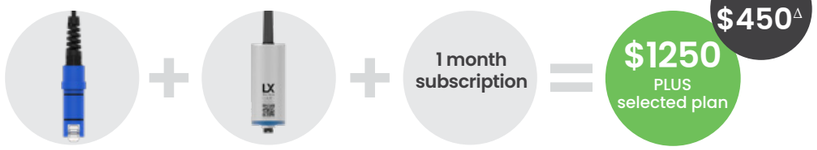
Data visualisation provided by LX Incyt Dashboard. Installation guide included.

NNNco LoRaWAN Connectivity

Plug 'n Play

Built to last

Visit product info page



Accuracy (velocity)	± 2.5% accuracy at velocity range 0.5 to 8.5 m/sec
Operating temp. range	+1°C to + 70°C (water must be in liquid state for the sensor to work)
Sensor material	Stainless steel 17-4PH paddle wheel rotor
Pipe diameter	ø15mm to ø100mm in diameter (alternate options available for 100mm - 300mm)
Sensor technology	Induction

Retrofittable Irrigation Flow Monitoring

SKU: KT030

Integrate with flow meters already installed on your existing irrigation system with our Smart Sensor.

The Retrofittable Irrigation Flow Monitoring System consists of an LX Smart Sensor Pulse Count cable to easily and seamlessly integrate with your existing dry contact pulse output flow meters.

Data visualisation provided by LX Incyt Dashboard. Installation guide included.

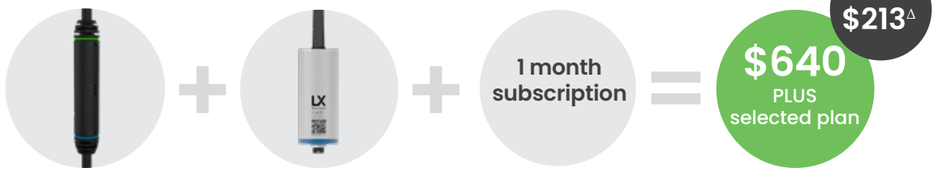
NNNco LoRaWAN Connectivity

Plug 'n Play

Built to last

Visit product info page

System contents:
1 x Blue Node
1 x Smart Sensor Pulse Cable



Irrigation Motion Detection System

SKU Basic: KT031
SKU Advanced: KT032

Ensure your lateral or pivot irrigation system is moving as intended.

The LX Irrigation Motion Detection System monitors lateral and pivot irrigation systems to ensure they are moving as intended. This system helps detect excessive dwell time in one location. Two implementation options available.

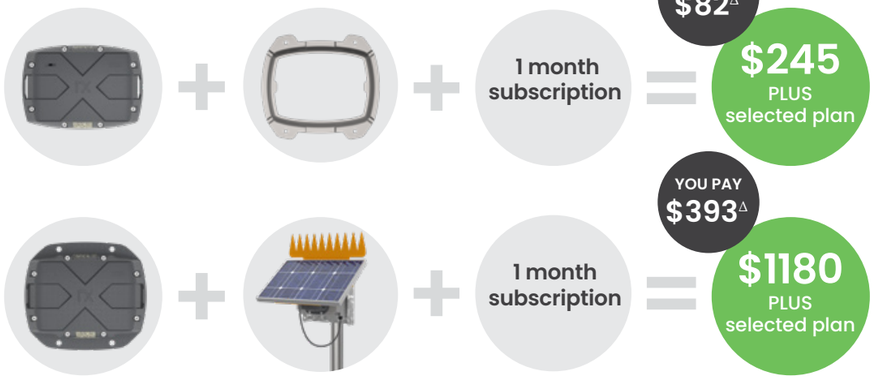
Data visualisation provided by LX Incyt Dashboard. Installation guide included.

Track + Sense

Plug 'n Play

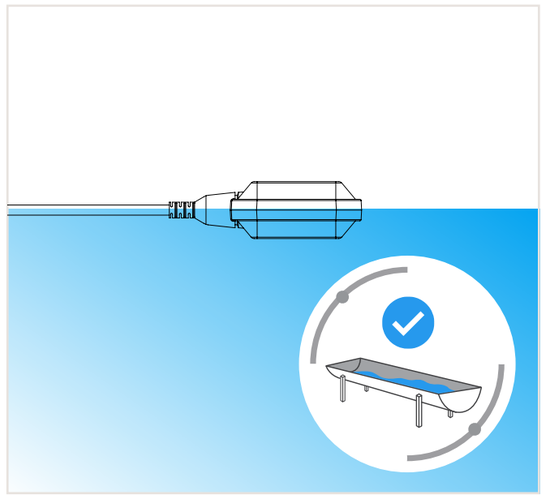
Built to last

Visit product info page



BASIC
(low reporting frequency)
1 x Polaris Tracker
1 x Mounting Bracket

ADVANCED
(high reporting frequency)
1 x Antares Tracker
1 x Solar Kit



Water Trough Detection Sensor

SKU: KT033

Float based trough water detection sensor.

Help protect your stock from dehydration using this water trough sensor that detects and alerts you when there is no water available in a trough.

The sensor pack comes with an LX Blue Node.

Data visualisation provided by LX Incyt Dashboard. Installation guide included.

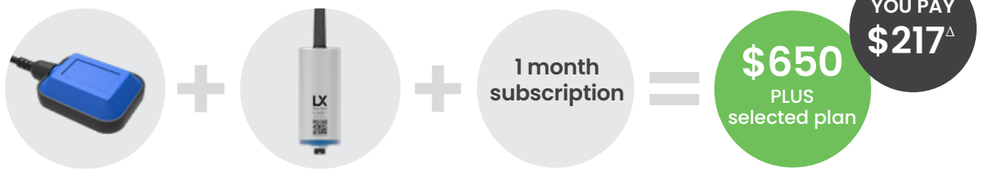
NNNco LoRaWAN Connectivity

Plug 'n Play

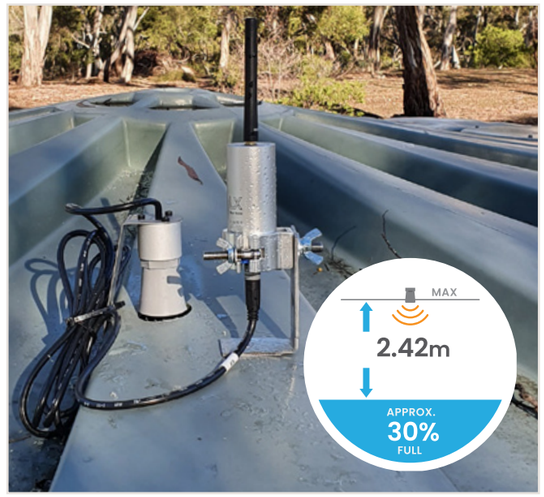
Built to last

Visit product info page

System contents:
1 x Blue Node
1 x water trough sensor



Enclosure rating	IP69 (sealed within a polypropylene casing)
Sensor technology	internal mechanical ball/microswitch combination
Operating temp. range	+1oC to + 70oC (water must be in liquid state for the sensor to work)



Ultrasonic Water Level Sensor

SKU: KT034

Rugged and durable non-contact liquid level measurement for tanks and open water sources.

Install these sensors in water tanks and over open water resevoirs such as dams, turkey nests, irrigation channels and creeks/rivers (where mounting infrastructure is available). This sensor measures the distance to the surface level using non-contact ultrasonic technology.

The sensor pack comes with an LX Blue Node. Data visualisation provided by LX Incyt Dashboard. Installation guide included.

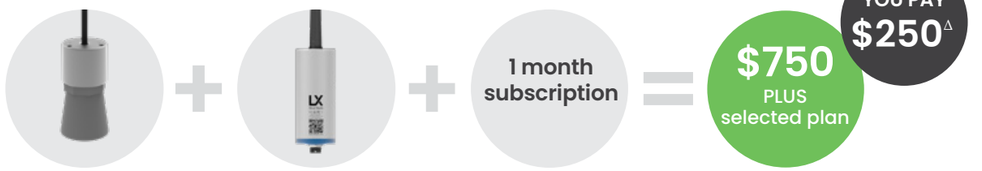
NNNco LoRaWAN Connectivity

Plug 'n Play

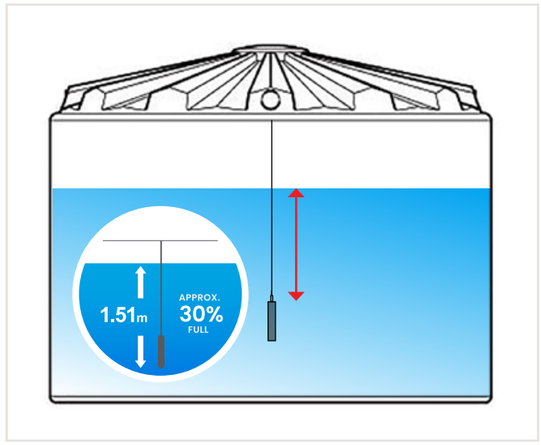
Built to last

Visit product info page

System contents:
1 x Blue Node
1 x Ultrasonic sensor



Operating temperature range	-20°C to + 65°C
Enclosure rating	IP67
Sensing distance	0.5m to 10 m



Hydrostatic Liquid Level Sensor

SKU: KT035

Submersible hydrostatic level sensor for remote water/liquid level measurement.

Submersible stainless steel hydrostatic level sensor for monitoring tank levels and other reservoirs to provide clear and accurate reporting on water/liquid levels. Receive alerts when levels drop below your predefined triggers - giving you peace of mind and avoiding regular manual checking. Works even when submersed in many corrosive materials. This hydrostatic sensing probe has piezoresistive measuring elements that have ambient temperature and atmospheric air pressure compensation. The sensor pack comes with an LX Blue Node.

Data visualisation provided by LX Incyt Dashboard. Installation guide included.

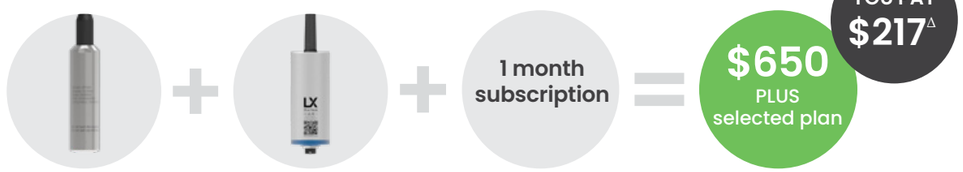
NNNco LoRaWAN Connectivity

Plug 'n Play

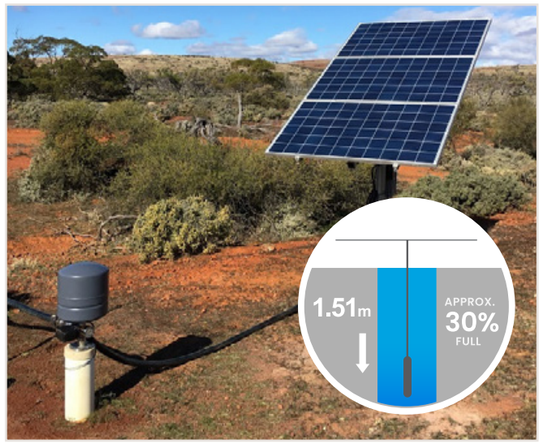
Built to last

Visit product info page

System contents:
1 x Blue Node
1 x hydrostatic level sensor



Pressure range	0 – 1 bar
Shaft diameter	32mm
Accuracy	0.5%
Cable length	3m Smart Sensor cable
Output	4-20 mA



Bore and Well Water Level Sensor

SKU: KT036

Accurate titanium bore and well water level measurement.

The bore and well water level sensor can be used to accurately measure the available water level in your bore/well. Made from titanium, to withstand the corrosive water present in many Australian bores. This sensor comes with a variety of cable lengths, including 50m, 100, and 150m. Contact LX to discuss your specific requirements.

The sensor pack comes with an LX Blue Node.

Data visualisation provided by LX Incyt Dashboard. Installation guide included.

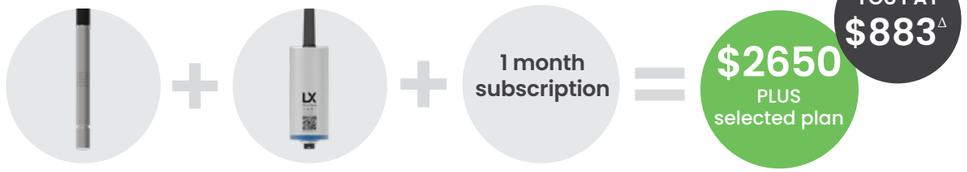
NNNco LoRaWAN Connectivity

Smart Control

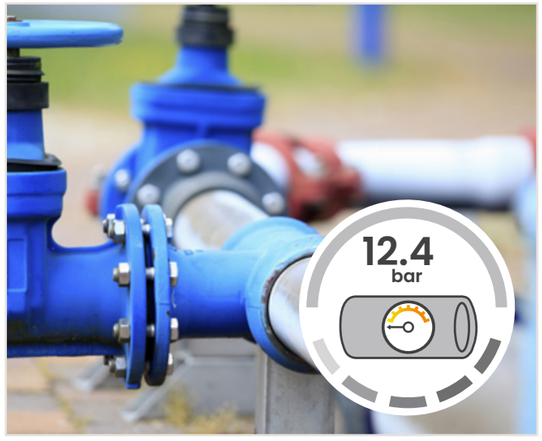
Built to last

Visit product info page

System contents:
1 x Blue Node
1 x water level sensor



Sensor diameter	19mm body diameter
IP rating	IP68
Material	Titanium
Range	0-50m, 0-100m and 0-150m
Accuracy	0.5% FS



In-line Pipe Pressure Monitoring System

SKU: KT037

Reliably monitor the pipe pressure in your on-farm water distribution and irrigation systems.

In-line pipe pressure sensors can be installed in your on-farm water distribution and irrigation systems to help ensure correct functioning of pumps, valves and pipes/joins. This system helps identify issues quickly when they arise. Pressure sensors are frequently installed on the pressure side of pumps to detect abnormal pump operation (including failure to start and an unprimed pump). Also installed at end of runs to detects leaks, abnormal water usage, etc. The sensor pack comes with an LX Blue Node.

Data visualisation provided by LX Incyt Dashboard. Installation guide included.

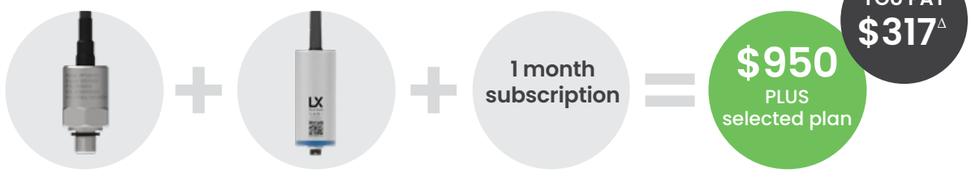
NNNco LoRaWAN Connectivity

Plug 'n Play

Built to last

Visit product info page

System contents:
1 x Blue Node
1 x In-line pipe pressure sensor



Operating temperature range	-20°C to +70°C
Compatibility	Monitored fluid must be in liquid or gas state
Material	Stainless steel
Pressure range	0-20 bar

Irrigation Pressure Monitoring System

SKU: KT037

Detect unexpected pressure differentials indicating issues on lateral, pivot and fixed irrigation systems.

These Pressure Sensors can be installed at the end of lateral, pivot and fixed irrigation systems to detect unexpected pressure differentials. Detect leaks, missing spray boots, pump pressure and blockages to ensure optimum system operation and intervine quickly to resolve issues.

Data visualisation provided by LX Incyt Dashboard. Installation guide included.

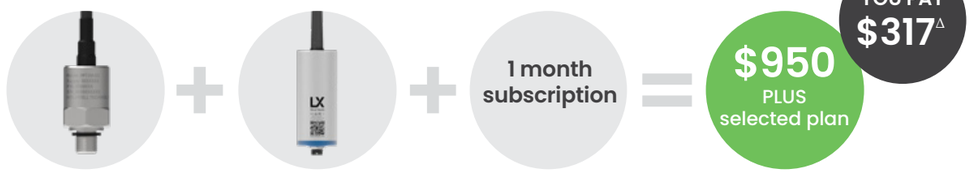
NNNco LoRaWAN Connectivity

Plug 'n Play

Built to last

Visit product info page

System contents:
1 x Blue Node
1 x In-line pipe pressure sensor



Operating temperature range	-20°C to +70°C
Compatibility	Monitored fluid must be in liquid or gas state
Material	Stainless steel
Pressure range	0-20 bar

Pump Monitoring System

SKU Basic: KT039
SKU Standard: KT040
SKU Pro: KT041

Gain insight into your water pump performance LX's three-level Pump Monitoring System.

1. **Basic Monitoring System** - The Basic Pump Monitoring System works on motion detection and provides reports on run time. It is plug and play, and works on most pumps, including petrol, diesel, electric and windmills.
2. **Standard Monitoring System** - As well as identifying pump status and run time, the standard system can determine whether the pump is primed and monitor the water pressure at the outlet of the pump to provide insights into water pressure related issues.
3. The **Pro Monitoring System** performs all the functions of the Standard System, as well as measuring the flow rate at the outlet of the pump.

Data visualisation for all systems is provided by LX Incyt Dashboard. Installation guide included.

BASIC $200 PLUS selected plan — YOU PAY $67Δ
STANDARD $950 PLUS selected plan — YOU PAY $317Δ
PRO $1950 PLUS selected plan — YOU PAY $650Δ

NNNco LoRaWAN Connectivity
Plug 'n Play
Built to last

Visit product info page

System contents

Basic
1 x Polaris with dynamic motion profiling

Standard
1 x In-Line Pipe Pressure Sensor
1 x Blue Node

Pro
1 x In-Line Pipe Pressure Sensor
1 x Water Flow Sensor
1 x Sensor Junction
1 x Blue Node

Pump Control Kit

SKU: KT042

LX Smart Sensor enabled control cable and power system for remote pump control.

The LX Smart Sensor enabled Pump Control Cable facilitates retrofittable remote pump control. System provides a 12V control signal for relay activation. Electrician required for installation and supply of pump interface equipment as required.

The kit comes with an LX Blue Node.

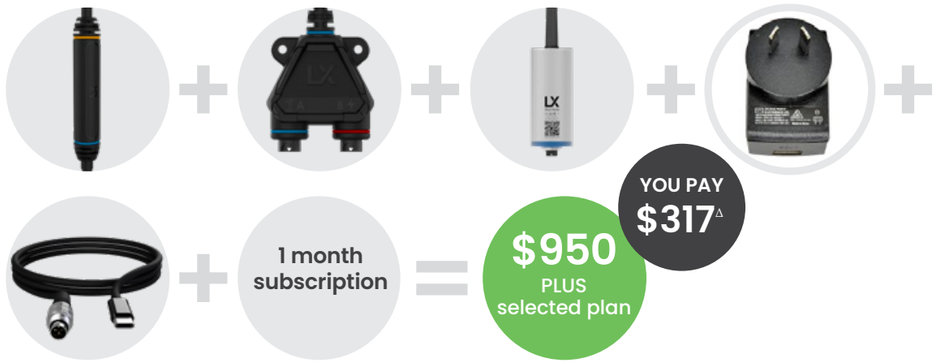
Data visualisation provided by LX Incyt Dashboard. Installation guide included.

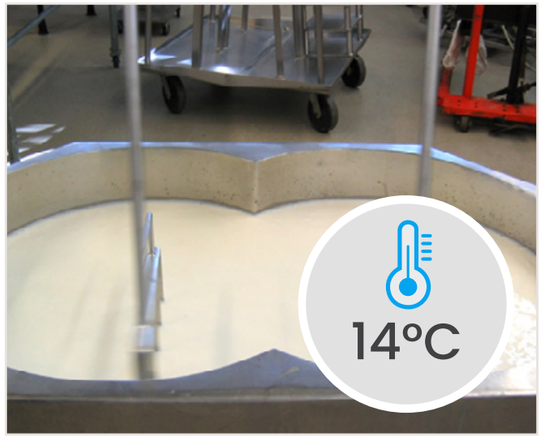
NNNco LoRaWAN Connectivity
Plug 'n Play
Built to last

Visit product info page

Kit contents

1 x LX Smart Sensor Pump Control Cable
1 x Blue Node
1 x Power Junction
1 x USB Power Supply Unit
1 x USB C Cable
Note: solar power option also available





Industrial Temperature Sensor

SKU: KT043

Monitor milk vats, fridges and freezers to recieve alerts in the event of cooling system failure.

Hermetically sealed stainless steel explosion proof industrial temperature sensor. This highly accurate temperature probe is ideal for use in milk vats, and for fridge and freezer monitoring to generate alerts in the event of out of bound conditions indicating cooling system failure. -50degC to 50degC sensor range, other ranges also available.

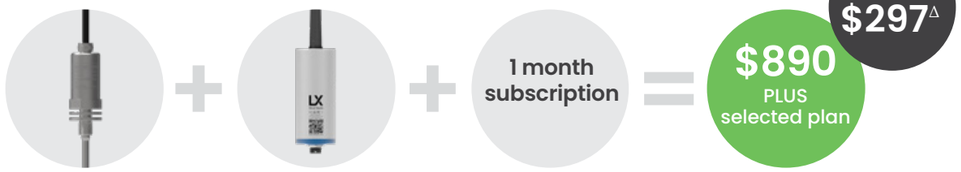
The sensor pack comes with an LX Blue Node. Data visualisation provided by LX Incyt Dashboard. Installation guide included.

NNNco LoRaWAN Connectivity

Plug 'n Play

Built to last

Visit product info page



Temperature sensor range	-50°C to +50°C
Sensor construction	316L stainless steel
Probe diameter	Ø6 mm
Accuracy	0.5%
Cable length	2m

COMING SOON

Fuel Level Sensor

SKU: KT044

Accurately and reliably monitor diesel fuel levels to optimise fuel deliveries.

This explosion proof sumbersible hydrostatic sensor can be used in fuel storage tanks to monitor diesel fuel levels. Contact LX for pricing and lead times.

The sensor pack comes with an LX Blue Node.

Data visualisation provided by LX Incyt Dashboard. Installation guide included.

NNNco LoRaWAN Connectivity

Plug 'n Play

Built to last

Visit product info page

Level range	0-6m
Sensor type	Submersible hydrostatic
Ex rating	Explosion proof
Accuracy	0.25%

YOU PAY $263Δ

$790

Solar Kit for Base Station (and Blue Node)

SKU: LX-SK25

Provides power to a Base Station (or Blue Node) in remote areas.

The Solar Kit can be used to provide an external power source for a Base Station if you are operating in an area without existing LoRaWAN coverage and power. Also capable of supplying power to a Blue Node via a Power Junction for high power applications such as pump control.

Installation guide included.

Animal Proof

Easy Install

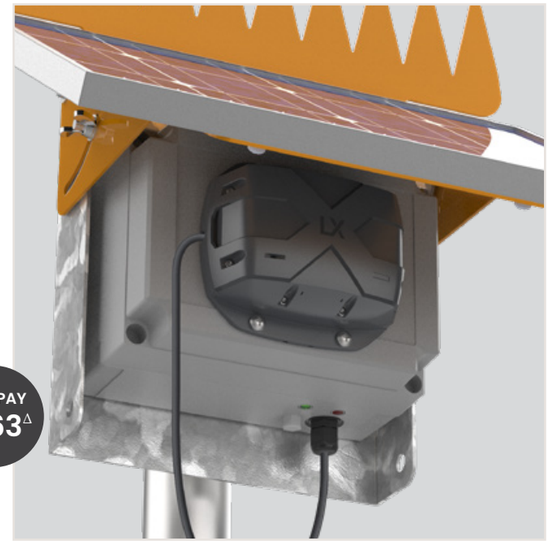
Built to last

Visit product info page

Battery	12V 4.0Ah SLA battery
Panel	10W
Operating temperature range	-20°C to + 70°C
Enclosure	IP67

YOU PAY $263Δ

$790



Solar Panel for Antares Gateway

SKU: LX-SK25GW

Provides power to Antares Gateway for fixed listening in remote areas.

Power your Antares Bluetooth enabled LTE-M Gateway with the 12V Solar Kit for operation in remote areas. Typical installation locations include stock water sources, gates and unpowered machinery sheds.

Installation guide included.

Animal Proof

Easy Install

Built to last

Visit product info page

Battery	12V 4.0Ah SLA battery
Panel	10W
Operating temperature range	20°C to + 70°C
Enclosure	IP67

Power Junction

SKU: BNYPR10

The Power Junction enables a Blue Node to be powered from a USB-C power source (from a mains adapter) or via a Solar Kit.

The Blue Node has a battery life of up to 10 years in the majority of applications. However, for control applications (such as turning a pump on and off), high frequency reporting applications and high energy sensors (such as continuos retroreflective laser sensor), external power may be required. In such situations, the Sensor Junction and Solar Kit or USB-C Plug Pack are available. Please contact us to discuss your specific needs.
Installation guide included.

Easy Install

Built to last

Plug 'n Play

Mains

Visit product info page

Ingress protection	IP67
Input power range	5V to 30VDC (>15W recommended)
Compatible with	USB-C Base Station cable range & Solar Kit
Temperature range	-20°C to + 70°C

Sensor Junction

SKU: BNYPB10

Connect two LX Smart Sensors to one Blue Node.

The Sensor Junction is an accessory that allows two LX Smart Sensors* to connect to a single Blue Node simultaneously. It can be used directly with an LX Blue Node, or in conjunction with an LX Power Junction. Intuitive colour coded system indicates valid Sensor Junction combinations.

Installation guide included.

**Refer to Sensor Combos page*

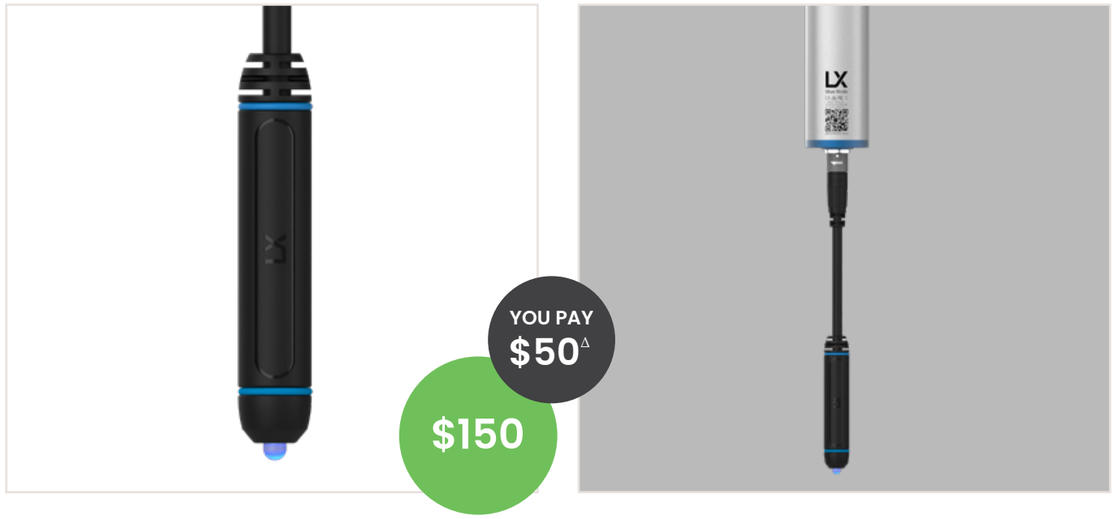
Easy Install

Built to last

Plug 'n Play

Visit product info page

Ingress protection	IP67
Temperature range	-20°C to + 70°C
Sensor combinations	refer to diagram
Temperature range	-20°C to + 70°C



YOU PAY $50Δ

$150

Range Test Unit

SKU: RTL10

Test network availablility and signal strength at selected Blue Node installation sites.

The Smart Sensor enabled Range Test Unit may be helpful in several Blue Node installation scenarios:

1. If an installation site is on the fringe of reception of LoRa/LoRaWAN, an optimal installation location may be identificated using the Unit.

2. In instances where there is no mobile phone reception, it may not be possilbe to use the phone App to confirm the unit is correctly installed.

3. To assist in the set-up and testing of high gain directional antennas in areas that otherwise may not have network coverage.

User guide included.

Plug ‘n Play

Easy Install

Built to last

Visit product info page

Ingress protection	IP67
Network tests	LoRaWAN and private LoRa
Compatible with	Blue Node
Temperature range	-20°C to + 70°C
User interface	Blue LED

YOU PAY $583Δ

$1750

LTE-M Private LoRa Base Station

SKU: LTE-M 433MHz - BS4L4A

SKU: LTE-M 900MHz - BS4L9A

LTE-M Private LX LoRa Base Station for deploying LoRa network access for remote areas that do not have LoRaWAN coverage.

Deploy your own LoRa network in minutes with this LTE-M Private LoRa Base Station for areas that do not currently have LoRaWAN network coverage, or devices operating in coverage gaps.

Automatic plug n’ play network creation in minutes, simply mount on a high location, plug in and activate. Easy to install and can be powered through mains USB-C cable or Solar Panel Kit. High gain antennas available for enhanced performance. Telstra 4G (LTE-M) backhaul, and 3G variant also available. Capable of supporting high numbers of connected devices. Ultra-long range LoRa network deployment (range dependant on installation and terrain).

Installation guide included.

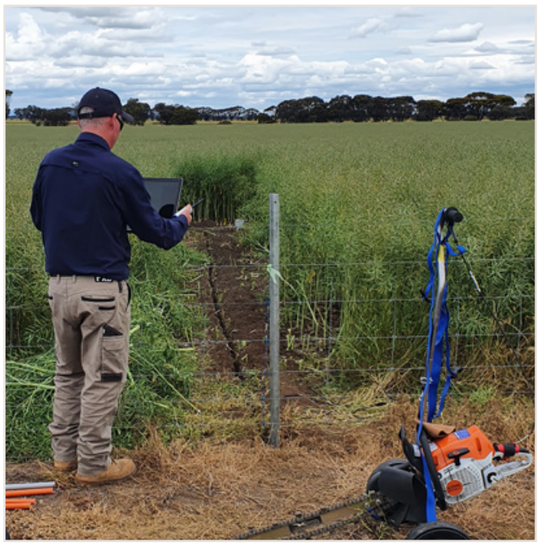
Plug ‘n Play

Built to last

Mains/Solar Powered

Visit product info page

Network range	Typically 5-15km, up to 25km (ideal conditions)
Enclosure	IP67, milled out of a solid block of aluminium
Advanced functionality	Edge processing capable
Device operating temperature	-20°C to + 70°C
Software	OTA software updates
Backhaul	LTE-M (or 3G variant)
Power source	USB-C mains adaptor or Solar Kit



Installation Service

SKU: SER01

Get assistance installing and setting up your LX Incyt Products.

All our products are designed to be Plug n' Play. However, if you need assistance, or just want the convenience of someone setting it up for you, we provide an installation service. Please call our experienced team to discuss how we may be able to help you.

Contact us for pricing

Smart Farm Planning Service

SKU: SER02

The team at LX provide a Smart Farm Planning Service to assist in the architecture of your smart farm transformation.

LX provides a consulting service to help you get the most out of the LX Product Ecosystem, and assist you in obtaining the best return for your investment. The team run a discovery process to understand your operation to provide insightful feedback and advice tailored to your unique operation and goals. Save time and have peace of mind knowing you have the best set up for your property.

$99 for a 1 hr consultation

Core Products	**LX Blue Node LoRaWAN** **(BN3L9A-LW)** LX Blue Node configured for the LoRaWAN network to connect your chosen sensors and get reporting straight to your phone, tablet or computer.	$490
Core Products	**LX Blue Node LoRa 433MHZ** **(BN3L4A)** LX Blue Node configured for LX LoRa network (provided through LX Base Station) to connect your chosen sensors and get reporting straight to your phone, tablet or computer.	$490
Core Products	**LX Blue Node LoRa 900MHZ** **(BN3L9A)** LX Blue Node configured for LX LoRa network (provided through LX Base Station) to connect your chosen sensors and get reporting straight to your phone, tablet or computer.	$490
Sensors	**LX Smart Sensor enabled Davis Weather Station** **(WSD10)** Professional and rugged weather station that has been configured for use with the LX Blue Node.	$1,380
Sensors	**LX Smart Sensor enabled Davis Rain Gauge** **(RGD10)** Accurate rain gauge that has been configured for use with the LX Blue Node.	$450
Sensors	**LX Smart Sensor enabled UV Sensor for Davis Weather Station** **(UVD10)** Add the UV Sensor to your Davis Weather Station to measure the sunburning portion of the UV spectrum. It displays the UV index, dose rate, and daily and accumulated dose.	$650
Sensors	**LX Smart Sensor Enabled Solar Radiation Sensor for Davis Weather Station** **(SRD10)** Add the Solar Radiation Sensor to your Davis Weather Station to measure solar radiation for evapotranspiration (ET) and Temperature/Humidity/Sun/Wind (THSW) Index.	$350
Sensors	**LX Smart Sensor Enabled Davis Temperature and Humidity Sensor** **(THS10)** Davis temperature and humidity sensor with radiation shield configured for use with the LX Blue Node.	$450
Sensors	**LX Smart Sensor Enabled ATMOS41 Weather Station** **(WSA10)** Compact 'all in one' weather station, configured for use with the LX Blue Node.	$3,850

Sensors	**LX Smart Sensor Enabled Aquacheck 400mm Soil Moisture Probe** **(SMA40010)** 400mm temperature compensated soil moisture probe that has been configured for use with the LX Blue Node.	$750
Sensors	**LX Smart Sensor Enabled Aquacheck 800mm Soil Mositure Probe** **(SMA80010)** 800mm temperature compensated soil moisture probe that has been configured for use with the LX Blue Node.	$895
Sensors	**LX Smart Sensor Enabled EnviroPro Soil Moisture Probe 800mm** **(SME80010)** 800mm temperature compensated soil moisture probe that has been configured for use with the LX Blue Node.	$990
Sensors	**LX Smart Sensor Enabled EnviroPro Soil Moisture Probe 1200mm** **(SME120010)** 1200mm temperature compensated soli moisture probe that has been configured for use with the LX Blue Node.	$1,490
Sensors	**LX Smart Sensor Enabled Leaf Wetness Sensor** **(LWM10)** Detect leaf wetness and ice formation. Sensor configured for use with the LX Blue Node.	$450
Sensors	**LX Smart Sensor Enabled EC/Salinity Sensor** **(ECR10)** All in one sensor for measuring ORP and temperature. Configured for use with the LX Blue Node.	$790
Sensors	**LX Smart Sensor Enabled Liquid PH Sensor** **(PHR10)** Accurate Soil and Water PH monitoring sensor, configured for use with the LX Blue Node.	$790
Sensors	**LX Smart Sensor Enabled Sentek Soil Moisture Probe 600mm** **(SMS60010)** 600mm temperature compensated soil moisture probe that has been configured for use with the LX Blue Node.	Contact us for pricing
Sensors	**LX Smart Sensor Enabled Sentek Soil Moisture Probe 1200mm** **(SMS120010)** 1200mm temperature compensated soil moisture probe that has been configured for use with the LX Blue Node.	Contact us for pricing
Sensors	**LX Smart Sensor Enabled Bore Water Level Sensor** **(BS10)** Borehole sensor for 0-50m bore configured for use with the LX Blue Node. Contact LX for different depth options.	$2,200

Sensors

LX Smart Sensor Enabled Ultrasonic Level Sensor (USM10) Rugged and durable tank level measurement sensor configured for use with the LX Blue Node.	$450
LX Smart Sensor Enabled Hydrostatic Water Level Sensor (HSH10) Submerged pressure sensor for easy remote water/liquid level measurement. Sensor configured for use with the LX Blue Node.	$450
LX Smart Sensor Enabled Temperature Probe (TPH10) High performance temperature sensor ideal for milk vat, fridge and freezer monitoring. Configured for use with the LX Blue Node.	$450
LX Smart Sensor Enabled Trough Water Detection Sensor (FST10) Tilt float switch sensor for measuring water/liquid levels, configured for use with the LX Blue Node.	$200
LX Smart Sensor Enabled Water Flow Sensor (FMM10) Water flow sensor for water/irrigation systems. Configured for use with the LX Blue Node.	$850
LX Smart Sensor Enabled Electric Fence Sensor (EFL10) Simple electric fence voltage sensing and reporting for fault detection. Sensor configured for use with the LX Blue Node.	$490
LX Smart Sensor Enabled Gate Detection Sensor (MSL10) Remote reporting on gate or door status. Sensor configured for use with the LX Blue Node.	$200
LX Smart Sensor Enabled Laser Retroreflective Sensor (RLP10) Laser retroreflective beam break sensor.	$550
LX Smart Sensor Enabled Dry Contact Pulse Count Cable (PCL10) Dry contact LX Pulse Count Cable for retrofittable irrigation flow monitoring. Sensor configured for use with the LX Blue Node.	$150
LX Smart Sensor Enabled In-Line Pressure Sensor (PSH10) Monitor pressure in water systems, configured for use with the LX Blue Node.	$550

Antenna and Mounting Accessories

LX Smart Sensor Enabled Fuel Level Sensor (FLS10) Accurately and reliably monitor diesel fuel levels configured for use with the LX Blue Node.	Contact us for pricing
Lyra Animal Collar (LAC10) Lyra combined with a stock collar for recording 'last known check-in' of stock (including cattle and sheep).	$120
High Power Omnidirectional Antenna for LX Base Station (433MHz) (BSANT433HG01) Extended range antenna for 433MHz LX Base Station	$150
High Power Omnidirectional Antenna for LX Base Station (900MHz) (BSANT915HG01) Extended range antenna for 900MHz LX Base Station	$150
High Power Omnidirectional 4G-LTE Global Antenna for LX Base Station (LTE-M) (BSANTM1HG01) Extended range antenna for LTE-M LX Base Station.	$290
High Power Directional Antenna for LX Blue Node (433MHz) (BNANT433HG01) Extended range antenna for 433MHz LX Blue Node.	$150
High Power Directional Antenna for LX Blue Node (900MHz) (BNANT915HG01) Extended range antenna for 900MHz LX Blue Node	$150
Mounting Shelf for Davis Weather Station (MSD10) Rigid shelf with anodized aluminum posts and stainless steel hardware attaches easily next to the rain collector and is used for mounting the Solar Radiation Sensor and/or the UV Sensor.	$96
LX Lyra Security Bracket (ETBLxx-BKT) A conveniant punched metal bracket to securely install your LX Lyra devices with 2x standard screws, security screws, tek-screws or rivets.	$20
LX Polaris Security Bracket (ETCHxx-BKT) A conveniant punched metal bracket to securely install your LX Antares devices with 4x standard screws, security screws, tek-screws or rivets.	$45
LX Blue Node Replacement Antenna Pack (433MHz) (BNANT43301) Standard replacement antenna for 433MHz LX Blue Node. Comes in a pack of three antennas.	$45

Antenna and Mounting Accessories	**LX Blue Node Replacement Antenna Pack (900MHz)** **(BNANT91501)** Standard replacement antenna for 900MHz LX Blue Node. Comes in a pack of three antennas.	$45
	LX Base Station Replacement Antenna (433MHz) **(BSANT43301)** Standard replacement antenna for 433MHz LX Base Station. Comes in a pack of three antennas.	$35
	LX Base Station Replacement Antenna (900MHz) **(BSANT91501)** Standard replacement antenna for 900MHz LX Base Station. Comes in a pack of three antennas.	$35
	LX Base Station Replacement Antenna (LTE-M) **(BSANTM101)** Standard replacement antenna for LTE-M LX Base Station.	$90
	LX Base Station Replacement Bracket **(BSBR01)** Replacement bracket for the LX Base Station.	$60
	LX Blue Node Replacement Bracket **(BNBR01)** Replacement bracket for LX Blue Node.	$40
	LX Lyra Animal Collar **(ETBL1AC)** LX Lyra Animal Collar for identifying stock check-ins at key locations such as water points, key nexus points, cattle yards and shearing sheds. Includes the LX Lyra and the animal collar.	$90
Power + Cable Accessories	**Smart Sensor Cable** **(PCU10)** Smart Sensor Cable for remote pump control (for use with an LX Blue Node).	$250
	LX Blue Node Extension Cable **(CHCH30)** 3m Extention Cable for the LX Blue Node.	$60
	Solar Kit Replacement Battery **(SKBAT01)** User-installable replacement battery for the Solar Kit.	$90
	LX Polaris Battery Replacement Kit **(ETCHxx-BAT)** User-installable replacement battery kit for the LX Polaris and Polaris Sense devices.	$65

Power + Cable Accessories	**LX Blue Node Battery Replacement and Refurbishment Service** **(SER03)** Service includes battery replacement, connector reconditioning, resealing, updating the firmware to the latest release, replacing the antenna, and a complete end to end unit test.	$150
	USB-C PD to 6-pin Power Cable (1.5m) **(BSUBPD15)** Power your LX Blue Node from USB-C with this cable. An LX Power Junction (sold separately) is required to use this cable with the LX Blue Node.	$95
	USB-C PD to 6-pin Power Cable (6m) **(BSUBPD60)** Power your LX Blue Node from USB-C with this cable. An LX Power Junction (sold separately) is required to use this cable with the LX Blue Node.	$145
	LX Antares Manual Wiring Power Cable **(ETCHxx-GW-OC5)** Power your LX Antares device from an automotive battery with this cable.	$80
	LX Antares USB-C Power Cable **(ETCHxx-GW-UB2)** Power your Antares device using USB-C with this cable.	$100
	External Plug Pack for USB-C Power **(USB PSU)** Global 20W plug pack for powering LX Blue Nodes, LX Base Stations and LX Antares Gateways via USB-C.	$60

The following combos all include a 1 month subscription, Blue Node and sensor junction.

In-Line Pressure Sensor

+

Flow Sensor

=

$1950 PLUS selected plan

YOU PAY $650Δ

SKU: KT045

Leaf Wetness Sensor

+

Rain Bucket

=

$1490 PLUS selected plan

YOU PAY $497Δ

SKU: KT046

Soil Moisture Probe*

+

Rain Bucket

=

FROM $2190 PLUS selected plan

YOU PAY $730Δ

*Price dependent on probe selected

SKU: KT047

Tank Level Sensor

+

Rain Bucket

=

$1490 PLUS selected plan

YOU PAY $497Δ

SKU: KT048

Soil Moisture Probe*

+

Davis Weather Station

=

FROM $3150 PLUS selected plan

YOU PAY $1050Δ

*Price dependent on probe selected

SKU: KT049

Soil Moisture Probe*

+

Leaf Wetness Sensor

=

FROM $2190 PLUS selected plan

YOU PAY $730Δ

*Price dependent on probe selected

SKU: KT050

Leaf Wetness Sensor

+

Davis Weather Station

=

$2450 PLUS selected plan

YOU PAY $817Δ

SKU: KT051

LX Incyt App

Next generation of software coming soon.

We're here to help your farm get connected

At LX we're on a mission to build technology that accelerates positive change at scale. Our vision is to be at the forefront of what's next – realising innovative solutions that transform organisations and industries.

Reach out to your local LX field sales representative Ben Stephens

We are keen to work with you to explore options and help with your smart farm transformation journey.

Contact Ben at **ben.s@lx-group.com.au** or phone **0432 683 709.**

And to keep up to date with new product releases and LX news, sign up to our newsletter **here.**

lx-group.com.au

AUSTRALIAN BUSINESS AWARDS

SMART BOMA BusinessAwards Winner Service Excellence Award

AUSTRALIAN SMALL BUSINESS CHAMPION AWARDS WINNER

Electronics FUTURE AWARDS

EDN INNOVATION Honoring Excellence in Electronics

Deloitte. Technology Fast500

INSURANCE COUNCIL OF AUSTRALIA

IET The Institution of Engineering and Technology

30 UNDER THIRTY anthill

CIO 20 HOTTEST IoT SOLUTION AdvisorPROVIDERS

BRW. FAST100

GOOD DESIGN AWARDS

anthill COOL COMPANY AWARDS WINNER

smartcompany smart50

mybusiness BUSINESS AWARDS

anthill SMART 100

SEEA SYDNEY ENGINEERING EXCELLENCE AWARDS

THE AUSTRALIAN BUSINESS AWARDS