



Hygiplas Smart Temp USER GUIDE

Contents

- 1 Welcome & Helpline
- 2 What's in the box
- 3-5..... Set up guide
- 6 Sensor specification
- 7 Gateway specification
- 8 Connected Contracts
- 9 Safety information



Welcome to UK Engineers Connected Contracts

In this information leaflet, you'll find everything you need to know about setting up your new Hygiplas Smart Temp System

Having trouble? Call our Helpline:

0330 202 0591

Monday - Friday

9:00 - 17:30

What's in the box?

2 x 915 MHz
Dipole Antenna
(LoRa)

2 x 2.4/5 GHz
Dipole Antenna
(WiFi)

Ethernet cable

Power cord



Gateway

Gore-Tex cover



Sensor
(front)



Sensor
(rear)



2 x AA lithium batteries
per sensor

Step 1:

Insert the lithium batteries supplied with the device into the Hygiplas Smart Temp sensor. You will require a small crosshead screwdriver to open the battery cover.

Lithium batteries must be used as standard.

Please note that alkaline batteries are not suitable for use in the sensor.

Secure the battery cover once batteries are in place. Tighten the screws in all four corners.

Step 2:

Position your sensor(s) upright within the appliance(s) you wish to monitor. Sensors that lie flat or at the base of your fridge-freezer are liable to accumulate moisture along the face/edge which could impact operation and cause damage over time.

Ensure that you have suitable fixings to secure the sensor in place using the provided mounting holes (if using cable ties, ensure no sharp edges remain when cable ties are cut).

Notes:

Don't screw your sensor onto the internal wall of your appliance as this may damage it.

Keep the Gore-Tex cover intact - this protects the internal probe from moisture.



Step 3:

Attach the two shorter antennas to the 2.4/5.5 GHz (Wi-Fi) ports. Then, attach the third and longer antenna to the 868 MHz/900 MHz (LoRa) port.

Step 4:

Position your gateway in proximity to the internet router at your establishment. Connect the power supply. Then connect the gateway to your internet router using the ethernet cable.

Step 5:

As the Gateway starts up, it will need to connect to our fibre network, which might take a while. You'll know it's ready when the power, ethernet and LoRa LED lights are lit up.

Next, it's time to take a look at your Connected Contracts Hub!

Remember to recycle our cardboard packaging along with your other paper waste once you're done.



Now it's time to log into your Connected Contracts Hub. This is where you'll link your gateway and sensors to your appliances and see the data come to life!

Upon purchasing a Connected Contracts plan, you were sent an email with instructions on how to access the Hub.

Please scan the QR code below to get started



**Or go to:
hub.uk-engineers.co.uk**

Once you have logged in to your Hub, you will be guided through the online set-up journey.



Sensor Specification

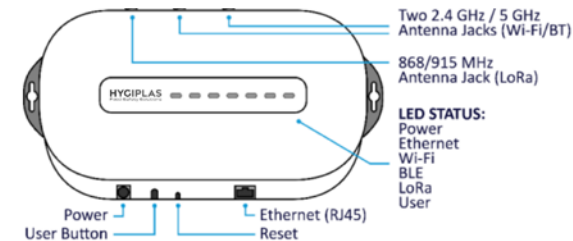
The Smart Temp Sensor is a lithium battery powered, long range integrated sensor. Its small, rugged form factor contains superior RF performance and flexibility with precise temperature and humidity sensors .

- Multi-wireless: LoRaWAN (868/915/923 MHz) with fully integrated high-performance antennas
- Multi sensor: Temperature and humidity
- Fully certified for FCC/IC/CE/ASNZS/NCC/IMDA
- Simple wireless configuration
- Harsh Environments: Robust enclosure to serve many varied installation needs.

Category	Feature	Specification
Chipset	LoRa®	Semtech SX1272
LoRa Frequencies		863-870MHz (EU), 902-928MHz (US), 915-928MHz (AU915 + AS923)
Sensors	Temperature Accuracy Ranges	-10% to +85°C (+/- 0.4°C) -40% to +125°C (+/- 1.1°C) (limited by device operating temperature)
	Humidity Accuracy Ranges	0-80% RH (+/- 3%) 80-100% RH (+/- 4.5%)
Antenna	Integrated	Antenna for 868,915, or 923Mhz Ceramic chip antenna for 2.4GHz
Power	Battery	2 x Lithium AA - replaceable
Storage	Data logging	10,000 measurements (256k of flash memory available)
Button	User Input	Multi-use - default BLE pairing
Physical	Dimensions	116mm x 91mm x 34mm
Environmental	Operating Temp.	-25°C to +50°C
Regulatory	Approvals	FCC, IC, CE, UKCA, ASNZS, NCC, IMDA

Gateway Specification

The Smart Temp Gateway is the ultimate in secure and robust LoRa solutions for end-to-end control of your private LoRaWAN network. The Smart Temp Gateway works with our Smart Temp Sensors for simple out-of-the-box integration.



Category	Feature	Specification
Chipset	LoRa®	Semtech SX1301/1257 (LoRa)
	Wi-Fi	Qualcomm Atheros QCA6004
Wireless Specification	Wi-Fi Spatial Streams	2x2 MIMO
	Wi-Fi Frequencies	2.4 and 5GHz Operation
	LoRaWAN Regions	863-870Mhz (EU), 902-928MHz (US), AU915-928MHz (AU915 + AS923)
Range		Up to 10 miles, line of sight (LoS)
Antenna	External	2 x 2.4/5GHz Dipole Antenna 1 x 915MHz Dipole Antenna
Power	Mains	13 Amp Plug (UK)
Physical	Dimensions	133mm x 275mm x 30mm
Environmental	Operating Temp.	(-30° to +70°C)
Regulatory	Approvals	FCC, ISED, EU, UKCA, AS/NZS, NCC

Connected Contracts

We offer three levels of Connected Contracts*. Choose a standard self-monitoring contract (Bronze) or one that includes preventative maintenance visits from our highly trained engineers (Silver or Gold) keeping your catering equipment in top condition, so you never miss a beat.

	BRONZE	SILVER	GOLD
Sensors and gateway delivered for free	•	•	•
Record all your due diligence temperature data	•	•	•
Receive alerts to your device via email	•	•	•
Eliminate manual recordings and reduce human error	•	•	•
Reduce the risk of food spoilage and waste	•	•	•
Monitor unit and working ambient temperature	•	•	•
Keep track of unit and atmospheric humidity	•	•	•
Annual preventative maintenance visit		•	
Cleaning of condenser filters and overall component check		•	•
Discount for all spare parts outside of warranty		•	
6-monthly preventative maintenance visits			•
Discount on all call-out charges			•
Higher rate discount off all spare parts outside of warranty			•

*Information accurate at time of publication

Contact the UKE Engineers helpdesk if you would like to upgrade your package. Call us on 0330 202 0591.

For more information, visit www.uk-engineers.co.uk



Safety Information



ATTENTION: SAFETY INFORMATION - READ BEFORE USE

The Hygiplas Smart Temp system is intended for indoor use. Do not disassemble, drop, crush or puncture the enclosure do not try to operate if the enclosure is damaged. Do not operate if the device is wet or has been exposed to liquids, and do not attempt to dry using an external heat source. Failing to comply may cause injury, short circuit or overheating.

The Hygiplas Smart Temp gateway is designed to work in ambient temperatures between 0°C and 35°C and stored between ambient temperatures of -30°C and 70°C. Do not store where temperatures may exceed 70°C as this may damage the device or pose possible risk of fire. The Hygiplas Smart Temp sensor is designed be stored between ambient temperatures of -25°C and 50°C. Do not store where temperatures may exceed 50°C as this may damage the device or pose possible risk of fire.

The Hygiplas Smart Temp gateway is designed to work with the DONGGUAN LIYANG ELECTRICAL TECHNOLOGY Co. Ltd. Model LY036SPS-120250B external power adaptor. This power adaptor is CB certified which complies as a Limited Power Source. The max. ambient temperature of the power adaptor is 35°C. Damage to cabling or enclosure of power adaptor can cause fire, electric shock, injury or damage to the device or property. When powering, ensure the power adaptor is plugged into a socket near the device and is easily accessible. Only power your Hygiplas Smart Temp gateway with the approved power adaptor; failure to do so may cause fire, electric shock, injury or damage to the device or property. When disconnecting the power adaptor from a socket, only pull the adaptor, never pull on the cable. Avoid having a twist or pinch in the cable, and never force a connector into a socket.

The Hygiplas Smart Temp system uses transceivers and electronics that emit electromagnetic fields; always observe rules which prohibit the use of wireless technology. While this device is designed to comply with regulations governing radio frequency emissions, use of wireless devices can have a negative effect on other electronic equipment. Electromagnetic fields may also interfere implanted medical devices. Always keep it at a safe distance away from implanted medical devices. Consult your healthcare provider before using the device if you have questions about its use. If you suspect this device may be interfering with an implanted medical device, turn off immediately, and consult your physician to discuss.

Do not use, store or transport the Hygiplas Smart Temp system where flammables or explosives are stored. Do not use your wireless device where blasting operations are in progress or in potentially explosive atmospheres such as those where the air contains high levels of flammable chemicals, vapours, or particles. Sparks in such areas could cause an explosion or fire, resulting in bodily injury or even death. Observe all notices and warnings where these hazards might exist.

This device may contain or come with small parts that may cause injury or create a choking hazard for children. Also, keep the cables out of the reach of children. Do not allow children to play with the device or its accessories as they may hurt themselves or could accidentally damage the product. Consult a physician immediately if small parts are swallowed.

Unauthorised repairs or modifications could result in permanent damage and may affect warranty and regulatory authorisations. Contact customer service for authorised repair services.

A temperature monitoring system with a difference.



UK Engineers
all rights reserved