ThermalTrace
Initial Startup Guide



Exceltec
CANADA Inc.

ThermalTrace Initial Startup Guide

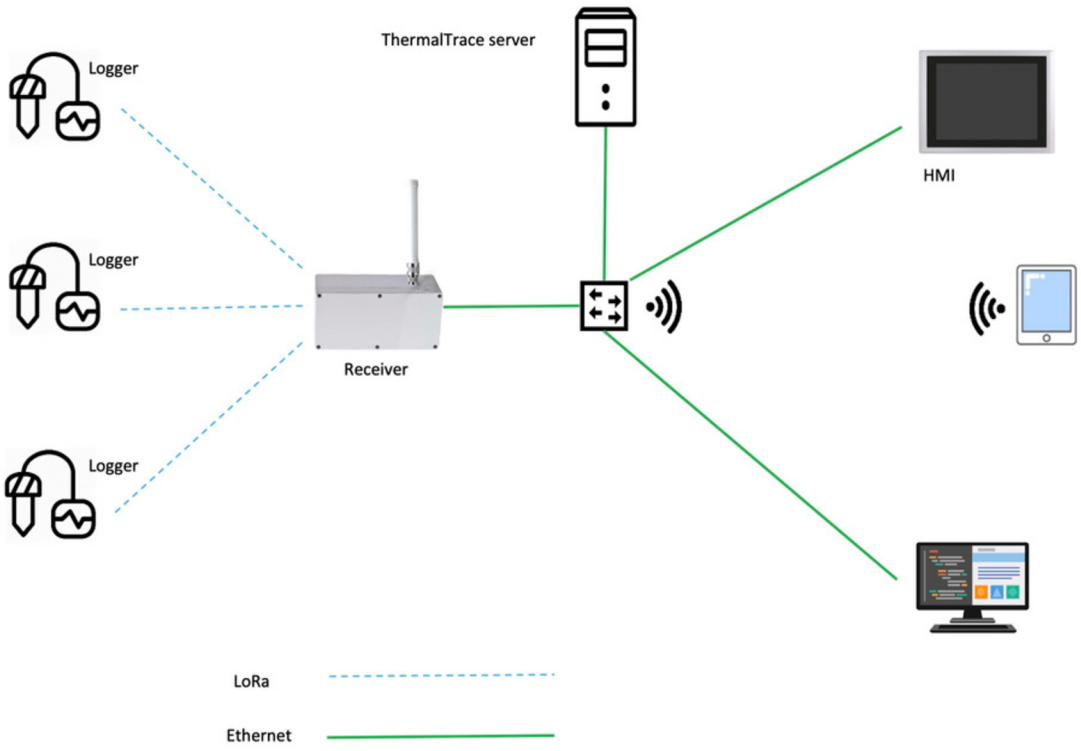
Thank you for purchasing **Exceltec** Canada's **ThermalTrace** wireless real-time predictive recipe system. This guide is intended to assist you in setting up your **ThermalTrace** system for its first time use.

Note: This document based on the supposition that **Exceltec** Canada has preconfigured your **ThermalTrace** system, based on your specifications. The document also assumes that your company meets the network connectivity (Ethernet cabling) and power requirements to run the system. A preconfigured system is ready-to- use.

The **ThermalTrace** system comprises a few components including:

- The **ThermalTrace** server (PC).
- The master receiver (NEMA enclosed box).
- Optional slave receivers (NEMA enclosed boxes).
- LoRaWAN antenna.
- **ThermalTrace** data logger opening tool.
- **ThermalTrace** data loggers.
- Stainless Steel HMI (Human Machine Interface).

System Configuration Map



Receiver (Master and Slaves)

Each receiver features screwable feet that you should secure into a wall. Screw the master and slave NEMA box receivers in their dedicated positions according to your company floor plan. By default, ThermalTrace has one receiver in the oven area and one in the blast zone. Power comes from an Ethernet cable that is either connected to a PoE (Power over Ethernet) backbone switch or a non-PoE switch. If using a non-PoE switch, Exceltec Canada supplies you with a PoE injector adapter. Simply connect the adapter to an outlet. Once connected, connect your network's Ethernet cable to the LAN port and connect the receiver's Ethernet cable to the PoE port. You should screw the LoRaWAN antenna into the antenna port at the top of the receivers. Important note: For the best coverage possible, please make sure that the antenna is pointing towards the ceiling.

HMI

You may use the provided metal hangers to attach the panel to the wall with proper screws strong enough to hold the weight of the panel. Your electrician should pass a 3 wires cable (AWG 16 wires) through the gland at the base of the enclosure and connect it as follows:

Live to the 120 V
Neutral to the N
Ground to the ⏚

To insert the wire you just need to push down the orange plastic next to the contact in the terminal block.



System Configuration

ThermalTrace Server

You may place the ThermalTrace server is a PC machine within the server room. Just provide power with a PC outlet cable and plug into your network with an Ethernet cable.

Data Loggers

The data loggers will arrive on site without the batteries inserted. They will be easily accessible by twisting open the data loggers manually. Make sure to insert the battery with the positive end pointing towards the probe wire and the negative end pointing up towards the hook. In other words, insert the battery upside down and then, secure it with the battery clip. To secure the casing, twist the casing into the base, then use the data logger opener tool to screw it in completely for a watertight seal.

Accessing the system

To access the ThermalTrace system, make sure the master receiver and optional slave receivers are powered on, and that the server is powered on. Use your preferred web browser on any PC on the network (Firefox, Safari, Chrome, Edge, etc.) and login typing the server IP address or http://thermal-trace.local in case that IT team can add the entry to your company DNS.