



Ambient TH Precision Transmitter

For ambient conditions



Non contractual picture

Part nr. 12367

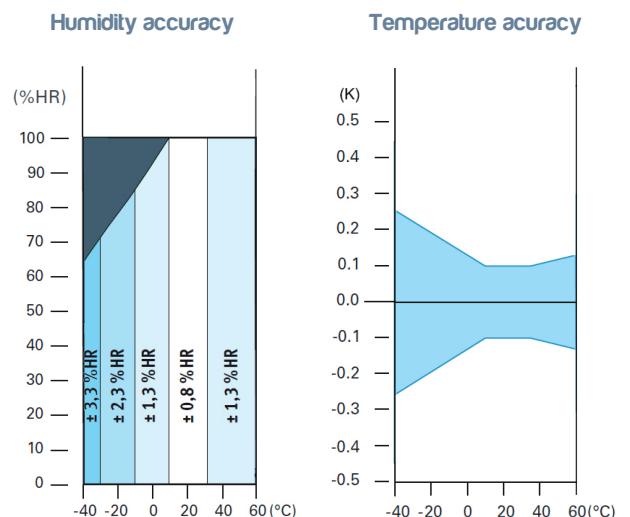
Presentation

The Ambient TH Precision Transmitter for ambient conditions measures temperature and humidity. It is suitable for applications in HVAC, food and pharmaceutical industries, energy management in building services equipment.

It is compatible with the LoRa® SPY U. A NANO SPY U can also be connected directly to the transmitter's analogue output or via a universal cable using an IP67 Binder connector.

Technical features

Measurement range	-40 to +60°C 0 - 100% RH
Operating conditions	From -40 to +60°C
Stability on a long term basis	< 1%RH /year
Temperature sensor	PT100 class A
Output	0 -1 V x2
Power supply	3.3...5 VDC
Filter	Wire mesh filter
Protection index	IP65
Weight	10g
Dimensions	Ø15x83mm
Delivered with	User manual



FT 12367 EN A

Connection

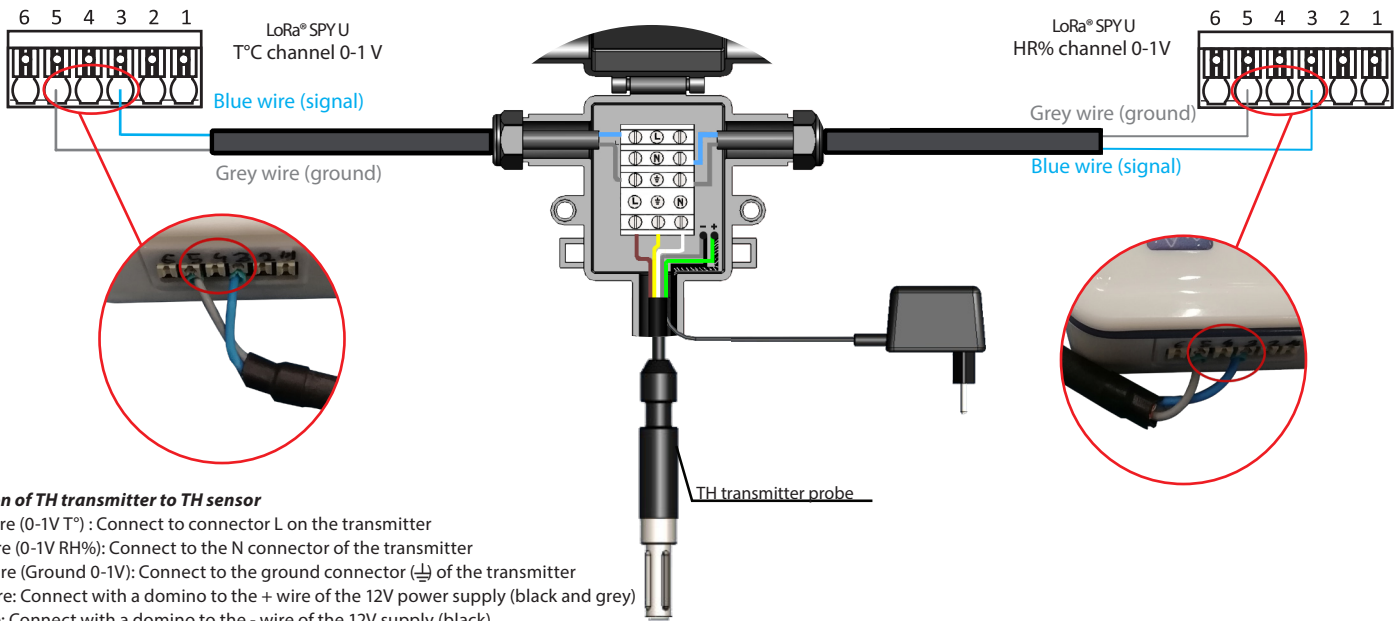
Case 1: Connection diagram with a LoRa® SPY U

T°C channel

- Blue wire: Connect one extremity to the connector 3 of a LoRa® SPY U. The other extremity should be connected to the L connector of the ambient TH transmitter
- Grey wire: Connect one extremity to the connector 5 of a LoRa® SPY U. Connect the other extremity to the ground connector (⏏) of the ambient TH transmitter

HR% channel

- Blue wire: Connect one extremity on the connector 3 of a LoRa® SPY U. The other extremity should be connected to the N connector of the ambient TH transmitter
- Grey wire: Connect one extremity to the connector 5 of a LoRa® SPY U. Connect the other extremity to the ground connector (⏏) of the ambient TH transmitter



Connection of TH transmitter to TH sensor

- Brown wire (0-1V T°): Connect to connector L on the transmitter
- White wire (0-1V RH%): Connect to the N connector of the transmitter
- Yellow wire (Ground 0-1V): Connect to the ground connector (⏏) of the transmitter
- Green wire: Connect with a domino to the + wire of the 12V power supply (black and grey)
- Grey wire: Connect with a domino to the - wire of the 12V supply (black)

Case 2: Connection diagram with a Nano SPY U

JRI recommends the use of a IP67 Binder connector (ref 12617) and a universal cable to connect the Nano SPY U to the ambient TH transmitter.

T°C channel

- Blue wire of the 1st Nano SPY: Connect to the terminal block 2 of the IP67 connector
- Brown wire of the 1st Nano SPY: Connect to terminal 4 of the IP67 connector
- Universal cable blue wire: Connect one side to the connector L of the ambient TH transmitter. And the other extremity on the terminal block 2 of the IP67 connector.
- Universal cable grey wire: Connect one side to the ground connector (⏏) of the ambient TH transmitter. Connect the other extremity to terminal 4 of the IP67 connector.

HR% channel

- Blue wire of the 2nd Nano SPY: Connect to the terminal block 2 of the IP67 connector
- Brown wire of the 2nd Nano SPY: Connect to terminal 4 of the IP67 connector
- Universal cable blue wire: Connect one side to the N connector of the ambient TH transmitter. And the other extremity on the terminal block 2 of the IP67 connector.
- Universal cable grey wire: Connect one side to the ground connector (⏏) of the ambient TH transmitter. Connect the other extremity to terminal 4 of the IP67 connector.

