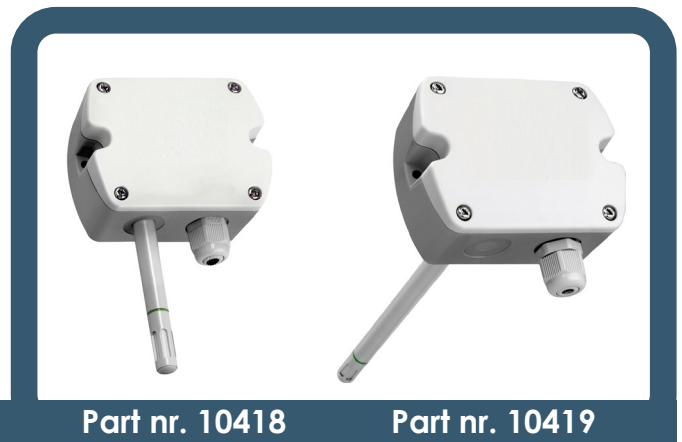




Precision Temperature & Hygrometry Transmitter for HVAC Application

For temperature and hygrometry monitoring in ducts



Non contractual picture

Part nr. 10418

Part nr. 10419

Presentation

The Precision Temperature & Hygrometry Transmitter is an economical and suitable solution, specially designed for HVAC application. It has a high stability on a long term basis and a 2-point-readjustment device.

It is compatible with the LoRa® SPY U recorder. 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

Part nr.	10418	10419
Measurement range	From -40 to +60°C and from 0 to 100%RH	
Measurement accuracy	±1,5% RH +1,5% of the measurement	
Temperature sensor	PT1000 class B	
Operating conditions	From -40 to +60°C	
Mounting	Wall	Duct
Output	2x 4-20mA	
Power	10-30 VDC (10V +RLx 0.02 < Uv < 30V DC)	
Filter	Stainless steel sintered	
Probe lenght	50 mm	200 mm
Sensor connection	Terminal block	
Dimensions	101 x 80,6 x 46 mm (without probe)	
Power supply to be added	Yes	
Universal adaptor to be added	Yes (x2) + 7cm adaptor for LoRa SPY U	
Option	Coating, inox filter or teflon	
Delivered with	User manual	

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Connection

Case 1: Connection diagram with two LoRa® SPY U

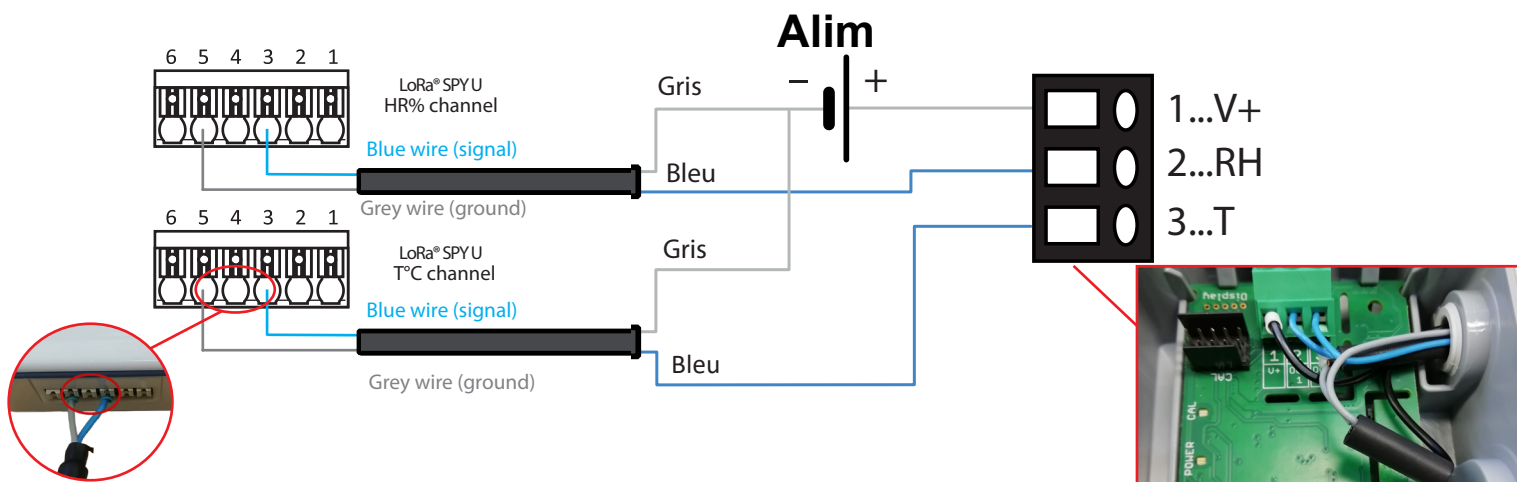
T°C channel

- Blue wire: Connect one extremity to connector 3 of a LoRa® SPY U. The other extremity is to be connected to the connector 3 - T of the Precision TH HVAC transmitter.
- Grey wire: Connect one extremity to connector 5 of a LoRa® SPY U. Connect the other extremity with a domino to the grey wire of the second LoRa® SPY U and to the wire - of the 12V power supply (black)

HR% channel

- Blue wire: Connect one extremity to connector 3 of a LoRa® SPY U. The other extremity is to be connected to the connector 2 - RH of the Precision TH HVAC transmitter.
- Grey wire: Connect one extremity to connector 5 of a LoRa® SPY U. Connect the other extremity with a domino to the grey wire of the second LoRa® SPY U and to the wire - of the 12V power supply (black)

- The + wire of the 12V power supply (black and grey) is to be connected to the connector 1 - V+ of the precision TH transmitter.



Case 2: Connection diagram with two 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 Precision TH HVAC transmitter.

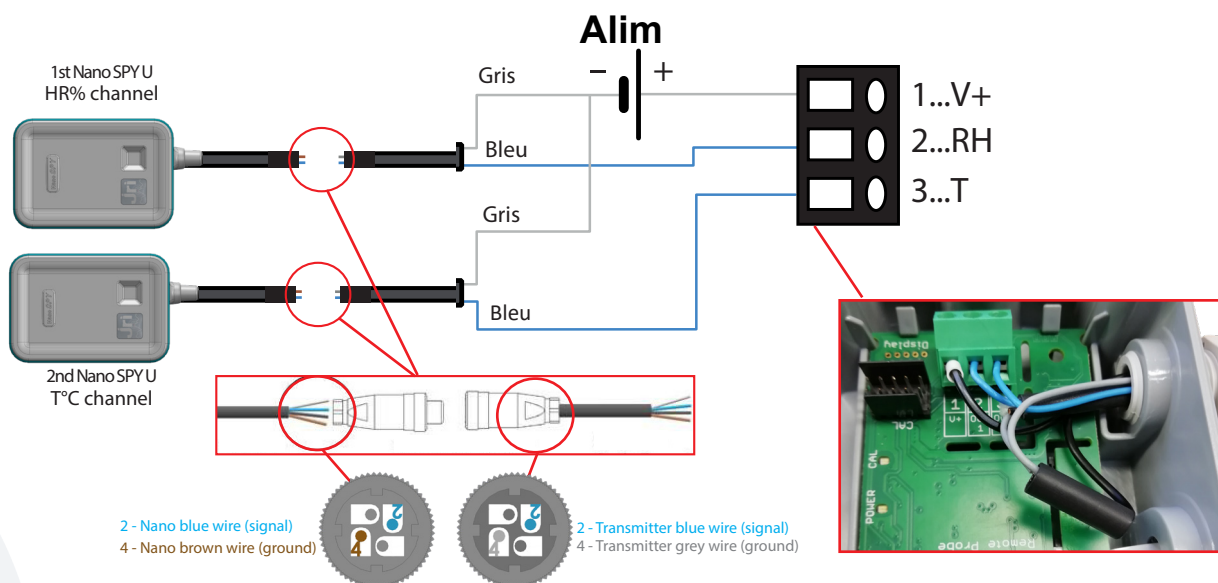
T°C channel

- The 2nd Nano SPY blue wire: Connect to terminal 2 of the IP67 connector.
- The 2nd Nano SPY brown wire: Connect to terminal 4 of the IP67 connector.
- Universal cable blue wire: Connect one extremity on the connector 3 - T of the Precision TH HVAC transmitter. The other extremity to terminal block 2 of the IP67 connector.
- Universal cable grey wire: Connect one extremity to terminal 4 of the IP67 connector. Connect the other extremity with a domino to the grey wire of the second LoRa® SPY U and to the wire - of the 12V power supply (black).

HR% channel

- The 1st Nano SPY blue wire: Connect to terminal 2 of the IP67 connector.
- The 1st Nano SPY brown wire: Connect to terminal 4 of the IP67 connector.
- Universal cable blue wire: Connect one extremity to connector 2 - RH of the precision TH transmitter. And the other extremity on the terminal block 2 of the IP67 connector.
- Universal cable grey wire: Connect one extremity to terminal 4 of the IP67 connector. Connect the other extremity with a domino to the grey wire of the second LoRa® SPY U and to the wire - of the 12V power supply (black).

- The + wire of the 12V power supply (black and grey) is to be connected to the connector 1 - V+ of the precision TH transmitter.



2 - Nano blue wire (signal) 2 - Transmitter blue wire (signal)
4 - Nano brown wire (ground) 4 - Transmitter grey wire (ground)