



# ATEX TH Transmitter Without DISPLAY

By Rotronic  
For ATEX zone



Non contractual photo


Part N° 13316

## Presentation

The TH ATEX transmitter for reliable measurements under extreme conditions. Measurement of relative humidity and temperature, optional indication of dew point and other calculated parameters. Safe to use in areas subject to explosion hazards.

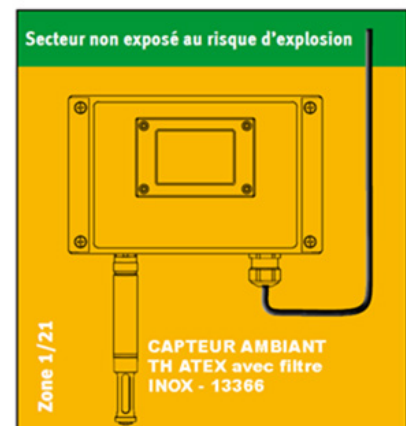
It is compatible with the LoRa® SPY U logger. It is also possible to connect a Nano SPY U directly to the analog output of the transmitter or via a universal cable using a Binder IP67 connector.

## Technical features

Measurement range	-40 to +60°C 0 - 100% HR
Accuracy	0.8% HR at 23°C
Working conditions	-40 to +60°C
Temperature sensor	A Clas. PT100
Filter	SP-FN15, sintered steel filter
Power Supply	10 to 28 VCC
Output	2x 4...20 mA
Cable length	2m
Protection Index	IP66
ATEX Certification	EU94/9/EG (ATEX) CSA22.2, UL 508
EX marking	 II 2(1) G Ex eb mb [ia Ga] IIC T5 Gb II 2(1) D Ex tb [ia Ga] IIIC T80°C Db
Weight	1030g (sensor alone)
Dimensions	Ø15x100 mm
Order with	2 LoRa U + 2 power supply 12-24V + 2 universal adaptor cable OR 2 Nano U + 2 power supply 12-24V

## ATEX Zone compliance

Montage mural Transmetteur TH ATEX 13315/13316



FT 13316 EN B

# Connection

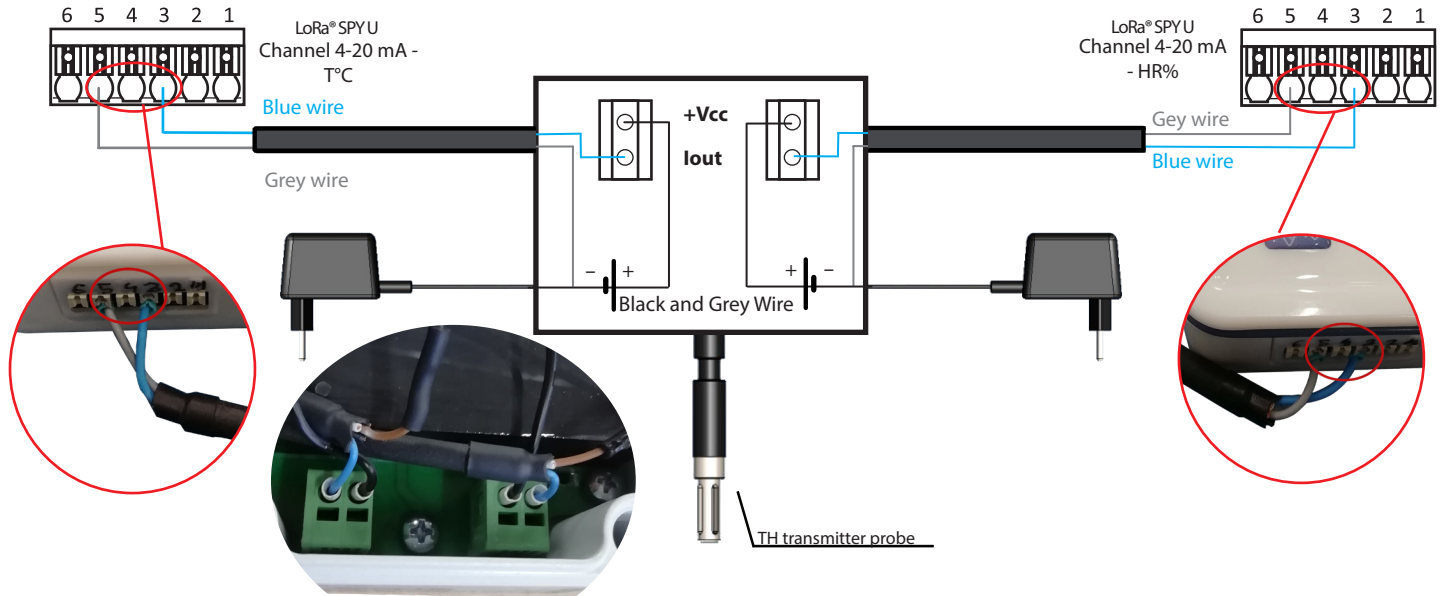
## Case 1: Connection diagram with two LoRa® SPY U

### T°C Channel

- Blue wire: Connect one extremity on the connector 3 of a LoRa® SPY U. The other extremity is to be connected on the connector T of the transmitter TH ATEX
- Grey wire: Connect one extremity on the 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 one of the - wire of a 12V power supply (black);
- Wire + of the 12V power supply (black and gray) is to be connected on the connector +Vcc of the transmitter TH ATEX.

### HR% Channel

- Blue wire: Connect one extremity on the connector 3 of a LoRa® SPY U. The other extremity is to be connected on the HR connector of the TH ATEX transmitter
- Grey wire: Connect one extremity on the 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 one of the - wire of the other 12V supply (black)
- Wire + of the power supply 12V (black and gray) is to be connected on the connector +Vcc of the transmitter TH ATEX.



## Case 2: Connection diagram with a Nano SPY U

### T°C Channel

- Blue wire: Connect one extremity to the T connector of the TH ATEX transmitter.
- Grey wire: Connect one end with a domino to the grey wire of the second Nano SPY U and one of the - wire of a 12V power supply (black).
- Wire + of the power supply 12V (black and gray) is to connect on the connector +Vcc of the transmitter TH ATEX.

### HR% Channel

- Blue wire: Connect one extremity to the HR connector of the TH ATEX transmitter.
- Grey wire: Connect one end with a domino to the grey wire of the second Nano SPY U and one of the - wire of a 12V power supply (black).
- Wire + of the power supply 12V (black and gray) is to connect on the connector +Vcc of the transmitter TH ATEX.

