

CO₂ Transmitter



Presentation

The CO₂ transmitter has a remote sensor with high accuracy and good stability.

It is supplied with a power supply and a universal cable which allows to be compatible with LoRa® SPY U recorders. 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.

For CO₂ incubators monitoring

COFRAC calibration is possible.

Technical features

Measurement accuracy	From 0 to 20%
Accuracy at 25°C and 1013 hPa	±0,1% at 5% ±0,2% from 0 to 8% ±0,5% from 8 to 20%
Temperature dependence at 5%	<±0,05% from 0 to 50°C
Pressure dependence at 5%	<±0,05% from 700 to 1100hPa
Output	4-20mA
Long-term stability	±0,3% from 0 to 8% ±0,5% from 8 to 12% ±1% from 12 to 20%
Power supply	230 VAC
Power consumption	<2,5W
Start-up time at 25°C	<10 sec
Operating conditions	-40°C to +60°C
Weight	45g
Dimensions	96mm, Ø25mm
Power supply	Supplied
Universal adaptor	Supplied
Supplied with	User manual
Options	1m flat cable Part nr. 11960 Fixing bracket Part nr. 11297

JRI, SAS

Logistics Pole / 2 Rue de la Voivre / PA Technoland / BP 21 / 25490 FESCHES LE CHÂTEL / France SIRET 380 332 858 00030 - Ph. : +33 (0)3 81 30 68 04 / sales@group-mms.com

www.jri-corp.com

Connection

Case 1: Connection diagram with a LoRa® SPY U

Blue wire: Connect one side to the connector 3 of the LoRa® SPY U. The other extremity must be connected to the connector L of the CO² transmitter.
Grey wire: Connect one extremity to the connector 5 of the LoRa® SPY U. Connect the other extremity to the ground connector (⊥) of the CO² transmitter.
The wire + of the 24V power supply (black and grey wire) must be connected to the N connector of the CO² transmitter.

- The wire - of the 24V power supply (black wire) should be connected to the ground connector (±) of the CO² transmitter.



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 CO² transmitter.

- Nano SPY U blue wire: Plug into terminal 2 of the IP67 connector.
- Nano SPY U brown wire: Plug into terminal 4 of the IP67 connector.
- Universal cable blue wire: Connect one end to the L connector of the CO, transmitter. And the other side to the terminal block 2 of the IP67 connector.
- Universal cable grey wire: Connect one side to the ground connector (=) of the CO² transmitter. Connect the other side to the terminal block 4 of the IP67 connector. - The wire + of the 24V power supply (black and grey wire) should be connected to the N connector of the CO² transmitter.
- The wire of the 24V power supply (black wire) should be connected to the ground connector (+) of the CO² transmitter.

