ITR720-001 - KNX RF TEMPERATURE, LUMINOSITY & HUMIDITY SENSOR

Device	ITR720-001
Power Supply	2 batteries 3V CR2032
Battery Life	> 8 years
Operating Range	Relative Humidity: 0 to 100% Temperature: –40 to +125°C Lux: 0.045 to 188,000lux
Measurement Accuracy	Temperature: ±0,4º C between -10ºC & +85ºC Humidity: ±4% between 0% & 80%
Transmission Power	< 10dBm
Transmission Range	In free field: ~100m, Indoors: ~ 30m
KNX Media	KNX RF 1.R
Radio Frequency	868,3 MHz
Type of Protection	IP 20, Class II
Temperature Range	Operation (-10°C...70°C) Storage (-15°C...85°C)
Dimensions	78x28x23 mm (HxWxD)
Certification	KNX Certified
Configuration	Configuration with ETS

DESCRIPTION

Interra ITR720-001 is a wireless KNX RF S-Mode temperature, luminosity or relative humidity sensor. ITR720-001 is a perfect solution for using in conventional installations without placing KNX bus cables with its bi-directional KNX RF communication functionality. Communication with the KNX bus must be carried out using a ITR750-002 KNX RF S-Mode media coupler.

FUNCTIONS & CHARACTERISTICS

The sensor incorporates different options that must be parameterized using the ETS:

Temperature sensor :

- Transmission frequency: according to the time or temperature change
- Over-heating or over-cooling alarms.
- Temperature sensor calibration.

Luminosity sensor :

- Transmission frequency: according to the time or luminosity change.
- Sun Protection or Generic Protection Alarms.
- Luminosity sensor calibration.

Relative Humidity sensor :

- Transmission frequency: according to the time or humidity change.
- Alarms by high or low humidity.
- Humidity sensor calibration.

-> It has a (1) programming key (check fig.1).

-> Programming and commissioning by ETS5.

-> Bi-directional communication

INSTALLATION

Fix the sensor to the wanted mounting place with the included adhesive strip or with screws.

The range of the radio signal depends on various external circumstances. The range can be optimized by the choice of Installation location avoiding placing it close to any possible sources of interference, e.g. metallic surfaces, microwave ovens,…

Note : Pull the plastic foil out to activate the battery.

COMMISSIONING

The programming and commissioning must be done with ETS5 or later.

For the commissioning of the sensor, follow these steps:

1. Supply the sensor.
2. Press the programming key. The LED goes on.
3. Load the physical address and the application software into the sensor
4. If the programming process has be done correctly, the LED will go out.

SAFETY NOTES

* Avoid to install it close to radio electrical devices, microwaves,…
* Leave a minimum separation of 2m between the transmitter and the receiver.
* May be used for indoor installations.

BATTERY REPLACEMENT

1. Release the cover of the sensor with the help of a screwdriver. Insert it into the upper slot.
2. Remove the cover of the socle and remove the battery being careful with the components of the printed circuit.

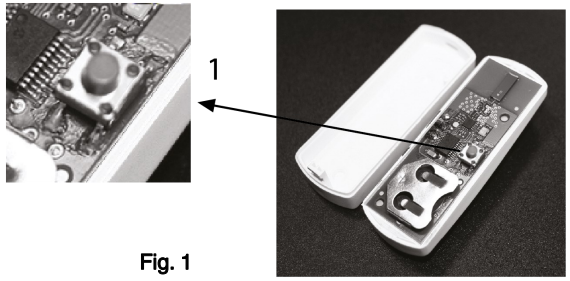

Fig. 1

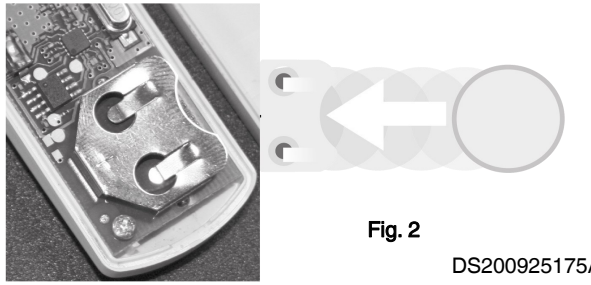

Fig. 2

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