

Temperature and Humidity Sensor 868MHz/915MHz Connectivity Solution for IoT



TH868LRD - THUS915LRD

General Description

TH868LRD and THUS915LRD are Temperature and Humidity sensors with LCD for indoor air quality applications.

The radio transmission is based on the new disruptive LoRaTM long range technology at 868MHz and 915MHz.

These types of sensor have been designed in order to monitor T and RH values in a room, meeting room or any generic indoor location.

One or two thresholds for each physical characteristics can be set from remote.

The sensor can also display on the LCD five rows of text messages, 21 characters each.







Technical Features

- Temperature range -10°C < T < +55° C with typical accuracy tolerance +/- 0.3°C
- Humidity range 0 < RH < 100%
- LoRa[™] long range 868MHz and 915MHz radio module
- LoRAWAN v1.0 class A compliant
- Programmable Alive signal
- One or two thresholds for both T and RH programmable from remote
- Graphic LCD resolution 128x64
- Up to 5 five messages of 21 character each can be displayed on 5 rows on the LCD
- Buzzer for low battery indication
- Buzzer for acoustic signaling
- lithium-thionyl 6.0 Ah, C size
- Temperature range -10°C < .. < +55° C
- Easy Installation

Frequency	868MHz – 915MHz
RF power	14dBm EIRP
Modulation	LoRa [™]
Network Protocol	LoRaWAN v1.0
RX sensitivity	-138dBm
Battery	3.6V lithium-thionyl chloride (Li-SOCl 2)
Temperature range	-10°< T < +55°C
Antenna	PCB printed
Power supply	Min 2,1V / Max 3,6V Typ.3,0V
Consumption standb	Typ. 15uA
Dimension	97 x 38 x 25 mm
Reference standards	EN 301 489-3 EN 300 220-1 EN 60950



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