BARTEC

EXaminer®

Wireless Relative Humidity and Temperature Sensor
Datasheet

Our latest contribution to practical IIoT deployment in potentially hazardous areas, the BARTEC smart-sensor measures relative humidity and temperature inside enclosures and systems certified for hazardous locations.

The data is retrieved via connection to a cloud solution, distributed control system (DCS) or locally with a smart phone or tablet. The innovation is a prerequisite for efficient condition based maintenance plan or historic event retrieval during campaign maintenance. The sensor may be mounted as a stand-alone unit in Ex e and Ex d enclosures. Measurement intervals and threshold values of relative humidity and temperature are programmed according to application requirements. The EXaminer® 100 sensor battery will last 6 - 8 years depending on configuration, activity level and abmient temperature exposures below -20 °C and above +80 °C.

- Stand-Alone humidity and temperature sensor
- 0 to 100% relative humidity range
- Temperature measurement range -40 to +80 °C
- Up to 8 year battery life depending on configuration
- Configured reporting fr event and/or cycle
- Addressable with MAC address and resource tag number
- Nominal LoS range: 300m

Explosion protection

Marking	Ex II 2G Ex ib IIC T4 Gb Ex II 2G Ex db ib IIC T4 Gb Ex II 2G Ex eb ib IIC T4 Gb -40 °C ≤ Ta ≥ +80 °C
Certification ATEX	Presafe 19 ATEX 20726 X
Certification IECEx	IECEx PRE 19.0087X
Directives	EN/IEC: 60079-0, 60079-1, 60079-07 60079-11

Other approvals and certificates, see bartec.com

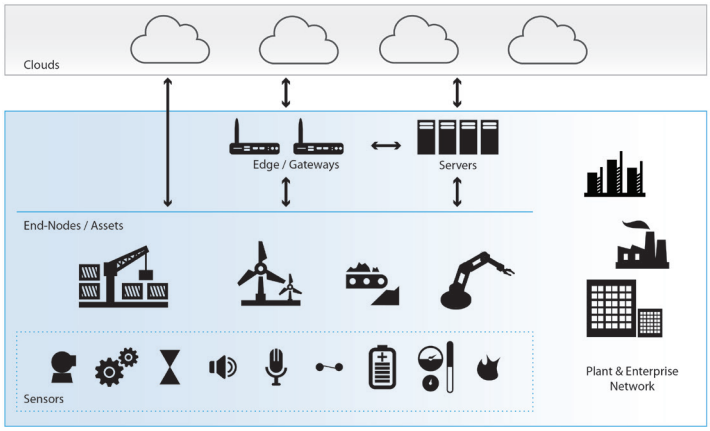
Technical Data

Material	SS316L or POM-H UV resistant
IP rating	IP 66
Temperature	-40 °C to +80 °C

Technical data subject to change without notice.

Typical application

Any and all applications calling for independent reporting and/or storage or temperature and humidity data.



Connect to smart phones, tablets and access points with BLE5 (Bluetooth® Low Energy) Certified Bluetooth® Wireless technology. Nominal range up to 300m depending on conditions. Density in obstructions in the line-of-sight will affect transmission range. It is advisable to position the gateway at a high position where obstructions between sensor and gateway are minimal.

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