

# 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, Ex p, Ex d and Ex t 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 ambient 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 for event and/or cycle
- Addressable with MAC address and resource tag number
- Nominal LoS range: 300m

## Explosion protection

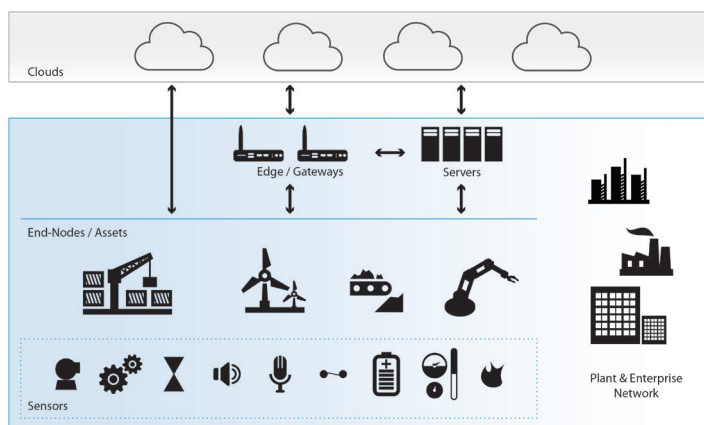
Marking	<ul style="list-style-type: none"> <li>⊕ II 2G Ex ib IIC T4 Gb, <math>-40\text{ °C} \leq T_a \leq +80\text{ °C}</math></li> <li>⊕ II 2G Ex db ib IIC T4 Gb, <math>-40\text{ °C} \leq T_a \leq +80\text{ °C}</math></li> <li>⊕ II 2G Ex eb ib IIC T4 Gb, <math>-40\text{ °C} \leq T_a \leq +70\text{ °C}</math></li> <li>⊕ II 2D Ex ib tb IIIC T113°C Db*</li> <li>⊕ II 2D Ex ib IIIC T113°C Db*</li> </ul> <p>*see User Manual or Ex certificates for details.</p>
Certification ATEX	Presafe 19 ATEX 20726 X
Certification IECEx	IECEx PRE 19.0087X
Directives	EN/IEC: 60079-0, 60079-1, 60079-07, 60079-11, 60079-31
	Other approvals and certificates, see <a href="http://bartec.com">bartec.com</a>

## Technical Data

Material	SS316L or POM-H UV resistant
IP rating	IP 66
Temperature	$-40\text{ °C}$ to $+80\text{ °C}$

## Typical application

Any and all applications calling for independent reporting and/or storage of 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.