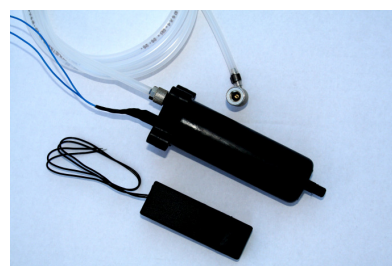


PtxA – Addressable Pressure Transducer



Introduction

- The **PTxA** can be read by a Monitoring System like our MS-Dwarf or any compatible models.
- The two-wire bus requires a dedicated pair of a copper cable.
- Up to 127 sensors can be connected on the same pair to transmit their measurement values in assigned time slots.
- the power supply is also provided by means of the transmitting pair and so there is no need of an external supply voltage.
- The working distance reaches many kilometers thus enabling monitoring over wide areas.

Description

The PTxA is designed to measure the pressure in the distributed air in contained areas. It uses an ultra low power embedded micro-controller and is electronically calibrated.

Measurement Range	
Absolute Pressure	800÷2000 hPa
Resolution	< 1 hPa
Accuracy over the entire range	±5 max / ±3 typical hPa
Overpressure Calibration	500 hPa
Address range	0-127
Remote reading	0÷10 %RH= 1000÷1100Hz, 1Hz = 0.1 %
Distortion factor of the frequency modulation	< 1
Transmission time duration	1500 ± 10 ms
Electrical characteristics	
Supply voltage	20 ÷ 120 V=
Nominal direct current (full load current)	5 (typ.) / 7 (max.) mA=
Quiescent current (typical)	45 µA
Modulation levels	0 ± 1 dBm/600Ω
Surge protection	Tranzorb (ultra fast solid state protection)
Environmental Conditions	
Continuous Operation Temperature	-20° C to +80° C
Transportation and storage Temperature	-40° to +90° C
Relative Humidity	0 to 95% non-condensing
Physical Properties	
Size	80x27x15 mm
Case	ABS
Monitoring pair connection	Access line, IP46 isolated, 2 x 0,6 solid wire

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