

Pressure transducer BR2W



Features

- Wi-Fi Communication 2.4ghz IEEE 802.11 18bits Resolution
- Battery consumption management
- High Resolution Load Measurements
- Fast Calibration Method
- Web Based Platform
- Full Bridge Balancing Measurement
- Wide Range Applications
- HART communication
- TCP/IP Wi-Fi protocol

Applications

- Pressure measurement
- DAQ- Data Acquisition Systems
- Remote Wi-Fi Data Transferring and SAP Integration
- Data logger Tracking Record with customized Report
- Industrial Process Control
- Analog Sensors Interface
- Digital Sensor Interface



Functional Description

BR2W has develop a unique solution for pressure monitoring. The solution aims to solve industrial problems in pressure monitoring, with versatility and robustness.

The pressure transducer uses the Wi-Fi Electronic System BR2W board. With the board usage, the equipment generates a Wi-Fi signal, what makes possible to connect the pressure reading to any electronic device that supports Wi-Fi connection. Also, the BR2W board solution versatility allows the generated Wi-Fi signal to be integrated in any local network.

The sensor has a measurement range from 0 ... 0.4 to 0 ... 1600 bar (0 ... 10 to 0 ... 20000 psi) with high precision and reliability. Non-linearity until 0.125 % from span.

The equipment has a robust design. It was made to work in high standard, even in advert conditions; as extreme temperature and hostile weather condition. Also, the transductor was designed to resist impact and advert vibration level.



Technical Specifications

Measurement Range

Gauge Pressure								
bar	0 0,4	0 0,6	0 1	0 1,6	0 2,5	0 4	0 6	
	0 10	0 16	0 25	0 40	0 60	0 100	0 160	
	0 250	0 400	0 600	0 1.000	0 1.600			
psi	0 10	0 15	0 25	0 30	0 50	0 60	0 100	
	0 150	0 160	0 200	0 250	0 300	0 400	0 500	
	0 600	0 750	0 1000	0 1500	0 2000	0 3000	0 4000	
	0 5000	0 6000	0 7500	0 10000	0 15000	0 20000		

Absolute Pressure								
bar	0 0,4	0 0,6	0 1	0 1.6	0 2.5	0 4	0 6	
	0 10	0 16	0 25	0 40				
psi	0 10	0 15	0 25	0 30	0 50	0 60	0 100	
	0 150	0 160	0 200	0 250	0 300	0 400	0 500	

Output Signal

Current output (4 wires) - Hart Optional	4 20 mA		
Wi-Fi Communication 2.4ghz IEEE 802.11 18bits Resolution	Client mode or acess point		

Power supply

The power supply for on kinds of outputs signal is 5 V. Battery last for 20 hours on continues running.

Operation condition

In order to cover a considerable amount of industrial applications, the transducer can work on advert conditions, and the current section has the goal to show the equipment's limitation.

In a context of temperature range of operation, the standard range for medium and ambient temperature is from -30 to +100 °C. Also, some care has to be taken during transportation, where it is allowed a temperature from -40 to +70 °C.

If vibration is a problem, the equipment has an acceleration threshold level of 20 g, for a frequency from 10 to 2000 Hz.

For an impact situation, it resists an acceleration of 100 g that occurs in 6 ms.

The transducer lifetime is 100 million load cycles.



Technical Dimensions (mm)

