Wet Differential Pressure Sensors

NEW!

QBE3100 Series

QBE3190 Series
(includes manifold)

Indoor Environmental Quality

Energy & Atmosphere

Description

QBE Series Wet Differential Pressure Sensors utilize a well-proven ceramic technology making them an ideal choice across a broad spectrum of applications. These sensors can be ordered individually or pre-assembled with an optional three-valve manifold

Features

- Loop powered 4 to 20 mA output signal
- Compatible with water and water/glycol mixtures
- Ultra-low susceptibility to temperature
- Maintenance free

Applications

The QBE Sensor is particularly suitable for use in HVAC systems where continuous monitoring of flow rate or differential pressure across a control valve is required.

QBE Series Wet Differential Pressure Specifications

Input Power ..... 7.5V to 33 Vdc
Output Signal ..... 4 to 20 mA
Long-Term Stability ..... ±0.5% Full Scale
Resolution ..... 0.1% Full Scale
Sum of Linearity, Hysteresis and Repeatability .....
Manifold ..... Aluminum (6061-T6511)
Tubing ..... Copper (UNS C12200)
Fitting ..... Brass (C36000)
Valve Stem ..... High-performance thermoplastic polymer
O-rings ..... Ethylene Propylene Rubber (EPS, EPDM)

Suitable Process Media ..... Air, water, water and glycol mixtures
Process Temperature (Sensor) ..... 5°F to 185°F (-15°C to 85°C)
Process Temperature (Manifold) ..... 40°F to 185°F (5°C to 85°C)
Ambient Operating Temperature ..... 5°F to 185°F (-15°C to 85°C)
Enclosure IP65/NEMA 4
Electrical Connections ..... 1/2" FNPT conduit (kit included for non-conduit installations)
Process Connections ..... 1/4" FNPT
Mounting Orientation ..... Any orientation is allowable (avoid orientations that may be susceptible to air pockets)
Maximum Working Pressure (Sensor) ..... 540 PSIG
Maximum Working Pressure (Manifold) ..... 250 PSIG

QBE Series Wet Differential Pressure Sensor Product Ordering

Description	Output Signal	Differential Pressure Range	Part Number
Wet DP Sensor	4-20mA	0-25 PSID	**QBE3100UD25**
	4-20mA	0-50 PSID	**QBE3100UD50**
	4-20mA	0-100 PSID	**QBE3100UD100**
Wet DP Sensor with 3-Valve Manifold	4-20mA	0-25 PSID	**QBE3190UD25**
	4-20mA	0-50 PSID	**QBE3190UD50**
	4-20mA	0-100 PSID	**QBE3190UD100**