

Model JYB-DW



Tiny Differential Pressure Transmitter

DESCRIPTION

Model JYB-DW is a cost efficient and tiny differential pressure transmitter for atmosphere in dry rugged environments. The transmitter uses our proprietary current output with wide temperature compensation. This design references the primary pressure sensing diaphragm to the atmosphere, and provides a stable zero regardless of the transducer environment.

FEATURES

- 0.04 % FS/°F temperature effect
- 1.0 % accuracy
- 0.07 psig (500Pa) to 0.7psig (5000Pa) range
- 4 to 20 mA, 0 to 5VDC or RS-485/232
- Enhanced temperature stability
- CE Certification

PRESSURE MEASUREMENT

Supply Voltage	12 to 30VDC
Operating Range	Any zero based full scale from 0.07psi(500 Pa) to 0.7psi (5000 bar)
Over Pressure	Two times for the full scale
Output Signal	Current two-wire 4mA to 20mA (Load < 500Ω); Voltage 0 to 5VDC
Pressure Media	Dry gas without caking

PERFORMANCE SPECIFICATIONS

Accuracy	±1.0% (25°C)
Response	<100ms
Long Term Stability	<0.2% FS per year
Temperature Range	-10 to 60°C
Temperature Effects	Max 1.0% FS typical over 0 to 60°C Max 1.5% FS typical over -20 to 85°C

PHYSICAL CONNECTION

Pressure Connection	M8x1.0 screw-in adaptor
Electrical Connection	Cable Line

ORDERING CODES

JYB-DW		
	I1	Current two-wire 4 ma to 20 ma
	V1	Voltage 0 to 5VDC
	W1	RS-232
	W2	RS-232
	M1	M8x1.0 screw-in adaptor
	S1	0-0.07psi
	S2	0-0.1psi
	S3	0-0.2psi
	S4	0-0.5psi
	S5	0-0.7psi
	D1	LED display
	D2	LCD display

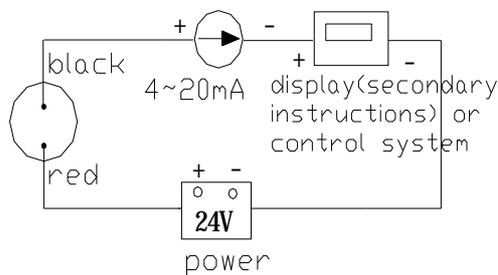
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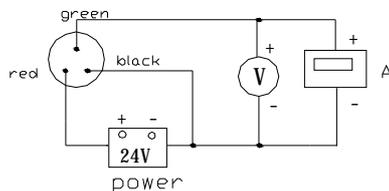
ELECTRICAL CONNECTION

Code	1(Red)	2(Green)	3(Blue)	4(Black)
I1	+Supply	NC	Shell	-Supply
V1	+Supply	Out	Shell	GND
W1	+Supply	485+(A)	485-(B)	GND
W2	+Supply	232Rx	232Tx	GND

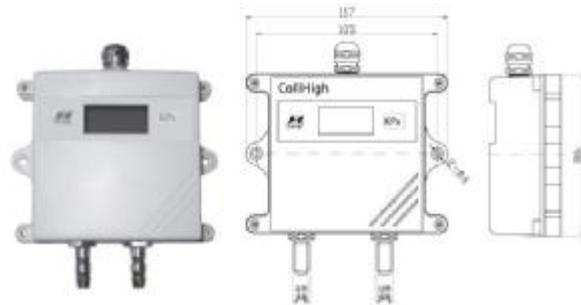
• Current two-wire 4ma to 20mA



• Voltage three-wire 0v to 5v



MOUNTING DIMENSION



NOTES

- 1• Because the sensor belongs to the precision component, in order to prevent damages of the product, don't disassemble voluntarily and touch a film slice, please.
- 2• When make a survey of high-pressure, must install buffer equipment in the exit of the connection between the sensor and the medium, which can avoid the momentary pulse high-pressure and the damages of sensors.
- 3• Accuracies stated are expected for best fit straight line for all errors including linearity, hysteresis & non-repeatability thru zero.
- 4• When install the pressure transmitter, must use the spanner from the bottom of the nut to screw tightly, avoid directly turning on the upside.
- 5• In order to production's airproof, our advice is use $\Phi 6$ - $\Phi 8$ wiring from the side of terminal.
- 6• This production only measures non-corrosive dry gas.