

Model JYB-DZ

Smart Tiny Differential Pressure Transmitter



DESCRIPTION

Model JYB-DZ is a smart tiny differential pressure transmitter. The transmitter uses our proprietary current output with wide temperature compensation and provide for the protection of IP65. 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
- 25Pa to 3000Pa range
- 4 to 20 mA output or 0 to 5VDC
- smart display

PRESSURE MEASUREMENT

Supply Voltage	20 to 30VDC
Operating Range	Any zero based full scale from 25Pa to 3000Pa range
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 cankering

PERFORMANCE SPECIFICATIONS

Accuracy	±1.0% (25℃)
Response	<100ms
Long Term Stability	<0.2% FS per year
Temperature Range	-10 to 50℃
Temperature Effects	0.04 % FS/°F temperature effect

PHYSICAL CONNECTION

Pressure Connection	3/16" (5mm) ID pipe
Electrical Connection	Cable line

ORDERING CODES

JYB-DZ		
	I1	Current two-wire 4 ma to 20 ma
	V1	Voltage 0 to 5VDC
	V2	Voltage 0 to 10VDC
	M1	Differential pressure transmitter
	M2	Departure pressure of zero
	S1	0-125 Pa (25,50,125)
	S2	0-1250 Pa (250,500,1250)
	S3	0-2000 Pa (750,1500,2000)
	S4	0-3000 Pa (1000,2000,3000)
	S5	±100Pa (±25,±50,±100)
	S6	±1250Pa (±250,±500,±1250)
	D1	No display
	D2	LCD display

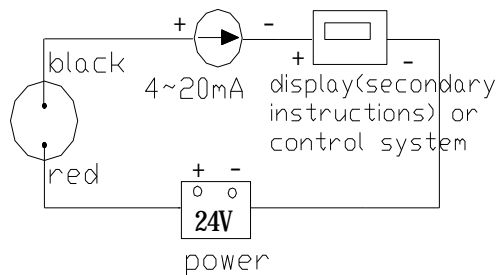
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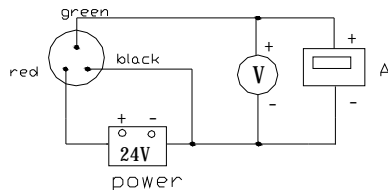
ELECTRICAL CONNECTION

Code	1(Red)	2(Green)	3(Blue)	4(Black)
I1	+Supply	NC	Shell	-Supply
V1	+Supply	Out	Shell	GND
V2	+Supply	Out	Shell	GND

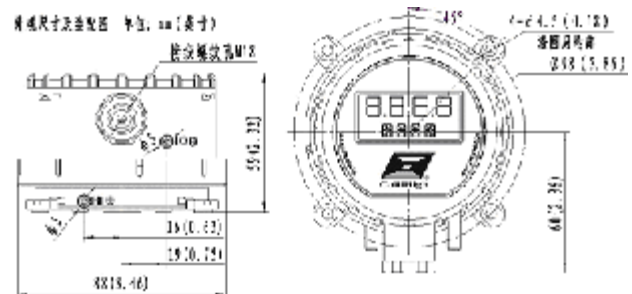
- Current two-wire 4ma to 20mA



- Voltage three-wire output



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 Φ6-Φ8 wiring from the side of terminal.
- 6• This production only measures non-corrosive dry gas.