

# Model JYB-KL



## Depth/Level Pressure Transmitter with Cable

### DESCRIPTION

Model JYB-KL Pressure Transmitter with cable are specifically designed for depth/level measurements in groundwater, well water, canals, rivers and other similar applications where the possibility exists for lightning damage. These devices have the same high performance and excellent reliability with the additional benefit of internal lightning protection.

### FEATURES

- High performance, low cost
- $\pm 0.25\%$  FS or  $\pm 0.5\%$  accuracy
- 2-wire, 4-20mA
- Fully welded titanium with 2 year corrosion warranty
- Excellent stability, high integrity and reliability
- CE Certification

### PRESSURE MEASUREMENT

|                 |  |
|-----------------|--|
| Supply Voltage  | 12 to 30VDC  |
| Operating Range | Any zero based full scale from 0.5m to 100m  |
| Over Pressure   | Two times for the full scale   |
| Output Signal   | Current two-wire 4mA to 20mA<br>( Load < 500 $\Omega$ );                               |
| Pressure Media  | Fluids compatible with 316 stainless steel and Hastelloy C276 (NACE compatible grades) |

### PERFORMANCE SPECIFICATIONS

|                     |  |
|---------------------|--|
| Accuracy            | $\pm 0.25\%$ , $\pm 0.5\%$ (25 $^{\circ}$ C)   |
| Response            | <100ms   |
| Long Term Stability | <0.1% FS per year  |
| Temperature Range   | -20 to 60 $^{\circ}$ C   |
| Temperature Effects | Max 1.0% FS typical over 0 to 60 $^{\circ}$ C<br>Max 1.5% FS typical over -20 to 85 $^{\circ}$ C |

### PHYSICAL CONNECTION

|                       |                           |
|-----------------------|---------------------------|
| Pressure Connection   | Water or similar water    |
| Electrical Connection | Cable or Connect Terminal |

### ORDERING CODES

|        |   |                                     |
|--------|---|-------------------------------------|
| JYB-KL | JYB-KBL is a safety model for Exib II BT4 |                                     |
|        | I1  | Current two-wire 4 ma to 20 ma      |
|        | I2  | Current two-wire 0 ma to 10 ma      |
|        | V1  | Voltage 0 to 5VDC                   |
|        | M1  | Cable (only I1,I2)                  |
|        | M2  | Cast iron shell without display     |
|        | M3  | Cast iron shell with finger display |
|        | M4  | Cast iron shell with LED display    |
|        | M5  | Cast iron shell with LCD display    |
|        | N1  | Cable                               |
|        | S1  | 0-0.5m                              |
|        | S2  | 0-1.0m                              |
|        | S3  | 0-2.0m                              |
|        | S4  | 0-5.0m                              |
|        | S5  | 0-10m                               |
|        | S6  | 0-20m                               |
|        | S7  | 0-50m                               |
|        | S8  | 0-80m                               |
|        | S8  | 0-100m                              |
|        | B1  | Gauge                               |
|        | B2  | Absolute                            |
|        | A1  | $\pm 0.25\%$                        |
|        | A2  | $\pm 0.5\%$                         |

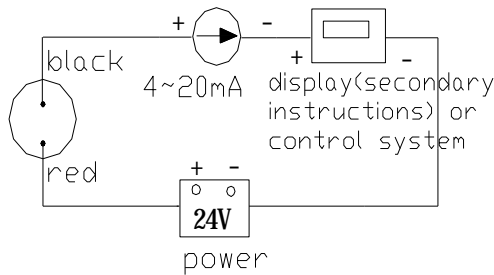
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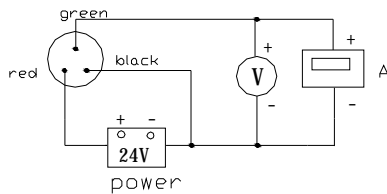
### ELECTRICAL CONNECTION

| Code | 1(Red)  | 2( Green) | 3( Blue) | 4(Black) |
|------|---------|-----------|----------|----------|
| II   | +supply | NC        | Shell    | -supply  |
| V1   | +supply | Out       | Shell    | GND      |

- Current two-wire 4ma to 20mA

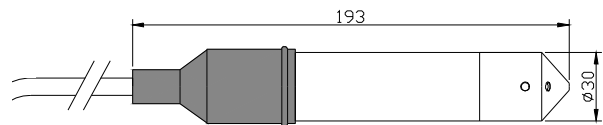


- Voltage three-wire 0v to 5v

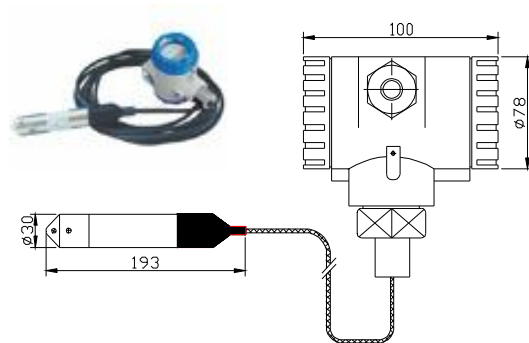


### MOUNTING DIMENSION

- Cable



- Cast iron shell



### 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.