



# JC

## RANGABLE ANALOG TRANSMITTER

### APPLICATIONS

- ▶ Strain Gage Measurements
  - Load Cells
  - Force Transducers
  - Torque Transducers
  - Pressure Transducers
- ▶ Transducer Interface To PLC/DCS
- ▶ Process Control
- ▶ Level Monitoring/Control
- ▶ Web Tension Monitoring/Control
- ▶ Intrinsically Safe Applications
- ▶ Cost Effective OEM/VAR Solutions



**FIELD RANGABLE!**



### FEATURES

- High Performance Measurements-Grade Power Supply And Precision Amplifier
- Range Of Selectable Output Formats For Voltage Or Current
- Input, Output, Excitation And Zero Offset Parameters Are Field Configurable
- Compatible With Single Or Multiple "Summed" Transducers
- Drives Up To 1000 Ohm Loop Resistance
- DIN Rail Or Panel Mount Using Industry Standard Plug-N-Play 11-Pin Socket
- No Interaction Between Zero And Span
- Designed For Use In "Electrically Noisy" Industrial Environments
- Functional Test/System Calibration Pushbutton
- Easy Setup And Calibration
- Multiple LED's Monitor Input And Output Signal Levels
- Powers Up To (4) 350 Ohm And Up To (8) 700 Ohm Transducers Compact Case Dimensions Of Only 2.75" High X 2.38" Wide X 1.75" Deep
- NEMA 4/4X And Explosion-Proof Housings Are Available
- Optional Features Include:
  - ▶ *Fast Response* Configuration to 1ms
  - ▶ Single or Dual Setpoints
  - ▶ DC Power
- One Year Warranty

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**INNOVATIVE MEASUREMENT SOLUTIONS**





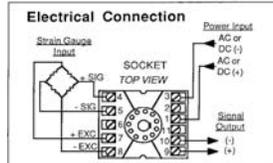
## OPERATOR INTERFACE

Status Annunciators:  
Functional Test Pushbutton:

Calibration Method:

Adjustments

Two: Red LED for output; Green LED for input; Variable intensity. Adjustable to 0-100% of calibrated range using integral potentiometer; Imposes known signal on the output, independent of any input signal. Range selection; Known signal input; Fine tuning potentiometer; Non-interactive zero and span signals eliminate "crosstalk" influences. Integral potentiometers & switches; Zero offset (deadload); Transducer input ranging; Transmitter output ranging; Excitation voltage.



## FUNCTIONAL PARAMETERS

Span Range @ Full Scale:  
Linearity:  
Measurement Response Rate:  
Zero Offset Adjustment:  
Bridge Excitation Voltage:  
Excitation Current Rating:  
Excitation Stability:  
Common Mode Rejection  
Input Impedance:  
Power:

Eleven; Field selectable; 0 To 5 mV (minimum); 0 To 1200 mV (maximum)  
Better Than Or Equal To 0.1% Full Scale (FS)  
70ms typical; Down to 10ms available (Optional)  
Field selectable;  $\pm 100\%$  of range  
Field selectable; 1-10 VDC; 1 volt increments; Fine adjustment of  $\pm 2.5\%$   
115 mADC @ 10VDC; Up To 4 (8) Summed  $350 \Omega$  ( $700 \Omega$ ) Bridges  
.005%/°F (.01%/°C)  
100dB (minimum)  
1Mohm (minimum)  
115 VAC  $\pm 10\%$  @ 50/60Hz; 2.5W (maximum)  
230 VAC  $\pm 10\%$  @ 50/60Hz; 2.5W (maximum); Optional  
12 VDC  $\pm 5\%$ /125 mA (maximum) or  $\pm 10\%$ /2.5W (maximum); Optional  
24 VDC  $\pm 5\%$ /65 mA (maximum) or  $\pm 10\%$ /2.5W (maximum); Optional

## ENVIRONMENTAL

Operating Temperature Range:  
Storage Temperature Range:  
Temperature Stability:  
Humidity Range:  
Enclosure Construction:  
Enclosure Dimensions:  
Weight:  
Warranty:

-10° To +60 °C / 14° F To 140°F  
-20° To +70° C / -4° F To 158° F  
Better Than 0.02% of Span/°C  
0 To 95% RH; Non-condensing  
High impact polycarbonate; 11-pin plug base  
2.75" high X 2.38" wide X 1.75" deep  
> 1 lbs. (0.5 kg)  
One year; Limited

## OUTPUT

Output Capability:

Field selectable; Drives up to 1000 ohm load resistance  
Voltage: 0-1 VDC (minimum); 0-10 VDC (maximum); Single and bipolar ( $\pm$ )  
Current: 0-2 mA (minimum); 0-20 mA (maximum)

Output Ranges:

Voltage: 0-1, 0-2, 0-5, 1-5, 0-10,  $\pm 5$ ,  $\pm 10$   
Current: 4-20, 0-20

## OPTIONS

Relay Modules:

Setpoint adjustment 0 to 100% of Span; Deadband adjustment 1 to 100% of Span; Single or double relay modules; 7A contacts @ 240 VAC (resistive load); 3.5 A contacts @ 240 VAC (inductive load).

Fast Response:

1ms response time

Other Options:

11-pin sockets, DIN or surface mount; Aluminum DIN rail; NEMA 4/4X enclosures; Explosion-proof enclosures ; DC power.