



# JD

## FIXED RANGE ANALOG TRANSMITTER

### *applications*

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



### *features*

- High Performance, Measurements-Grade Power Supply And Precision Amplifier
- Array Of Input And Output Ranges Available
- Factory Pre-Set Output Range For Voltage or Current Formats and Excitation Voltage
- Field Fine Tune Adjustment Of Span And Zero Offset Parameters
- Compatible With Single Transducer Applications
- 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
- Single Or Dual Setpoint Relay Modules Are Available
- Compact Case Dimensions Of Only 2.75" High X 2.38" Wide X 1.75" Deep
- DIN, Surface And *Snap Track* Mounting Alternatives
- NEMA 4/4X And Explosion-Proof Housings Are Available
- The *JA* Series Upgrade Is Compatible With Single & Multiple Transducer Applications And Is A Fully Field Rangeable Alternative To The Fixed Range *JD* Series
- One Year Warranty

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*Innovative Measurement Solutions*

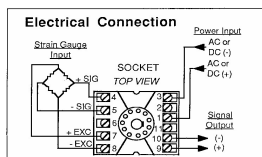


### operator interface

Status Annunciators:  
Functional Test Pushbutton:

Calibration Method:

Adjustments:



2; Red LED for output; Green LED for input; Variable intensity. Fixed at 50% of span range; Imposes pre-adjusted signal on the output, independent of any input signal.  
Fixed Range; Calibrated signal input; Fine tuning potentiometer; Non-interactive zero and span signals eliminate "crosstalk" influences. Integral potentiometers & switches; Zero offset fine tuning; Transducer span fine tuning; Excitation voltage adjustment.

### functional parameters

Linearity:  
Measurement Response Rate:  
Span Range @ Full Scale:  
Zero Offset:  
Bridge Excitation Voltage:  
Excitation Current Rating:  
Excitation Stability:  
Low Pass Filter:  
Common Mode Rejection  
Input Impedance:  
Power (Standard):  
Power (Options):

Better Than Or Equal To 0.1% Full Scale (FS)  
70ms typical; Down to 10ms available (Optional)  
Factory set; Select 0 To 1 mV/V (minimum); 0 To 200 mV/V (maximum)  
Fine: 0-10%; Coarse: Factory set pre-load offset available  
Factory adjustable: 4-10 VDC; Field adjustable: 10% of Factory setting  
30 mA maximum  
.005%/°F (.01%/°C)  
20 Hz; Other settings are factory adjustable  
100dB (minimum)  
200K (typical)  
115 VAC ±10% @ 50/60Hz; 2.5W (maximum)  
230 VAC ±10% @ 50/60Hz; 2.5W (maximum)  
12 VDC ± 5% 125 mA maximum; or 12 VDC ± 10% 2.5 W maximum

### 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 Ranges:

Voltage: 0-1, 0-5, 1-5, 0-10, ± 5 or ± 10 VDC  
Current: 0-20 mA or 4-20 mA  
Drives up to 1000 ohm load resistance

Output Capability:

Voltage: ± 10VDC @ ± 10 mA  
Current: 25 mADC; 12 V compliance

### options

Relay Modules

All the Environmental features of the JD Series; 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)

Other Options:

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