



JA

FIELD RANGABLE 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

SUPERB VERSATILITY



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
- Preload Offsets Adjustable Up To 100% of Span Range
- Drives Up To 1000 Ohm Loop Resistance
- Linear Optical Isolation Of The Input, Output And Power Supply Eliminates Ground Loop Potential, Provides Common Mode Rejection And Reduces Noise Pickup
- Remote Sensing Is Selectable And Maintains Constant Voltage At The Transducer(s)
- 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
- The JB Series Is A "Summing Transmitter" Version Integrated With A Four Channel Summing Module In A NEMA 4/4X Enclosure
- NEMA 4/4X And Explosion-Proof Housings Are Available
- The JD Series Is A Low Cost "Fixed Range" Alternative To The "Rangable" JA Series
- One Year Warranty

SENTRAN, LLC
California Commerce Center
4355 Lowell Street
Ontario, CA 91761-2225

Toll Free: 1(888) 545-8988
Phone: 1(909) 605-1544
Fax: 1(909) 605-6305
Email: mail@sentranllc.com
URL: www.sentranllc.com

Innovative Measurement Solutions





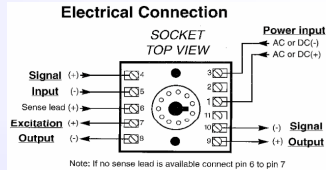
operator interface

Status Annunciators:
Functional Test Pushbutton:

Calibration Method:

Adjustments

2; Red LED for output; Green LED for input; Variable intensity. Adjustable to 0-100% of calibrated range using integral potentiometer; Imposes preadjusted 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

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

Better Than Or Equal To 0.1% Full Scale (FS)
70ms typical; Down to 10ms available (Optional)
Field selectable; 0 To 5 mV (minimum); 0 To 400 mV (maximum)
Field selectable; 0-100%; 15% increments
Field selectable; 1-10 VDC; 1 volt increments; Fine adjustment of ±5%
120 mADC @ 10VDC; Up To 4 (8) Summed 350 Ω (700 Ω) Bridges
.005%/°F (.01%/°C)
100dB (minimum)
200K (typical)
2000V RMS (minimum)
Better Than 0.01%/1 Ω Change in Lead Resistance
115 VAC ±10% @ 50/60Hz; 3.5W (maximum)
230 VAC ±10% @ 50/60Hz; 2.5W (maximum); Optional
9-30 VDC @ 3W with four 350 Ω bridges; 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 Ranges:

Output Capability:

Optically isolated; Field selectable; Drives up to 1000 ohm load resistance

Voltage: 0-1 VDC (minimum); ±10 VDC (maximum)
Current: 0-2 mA (minimum); 4-20 mA, 0-20 mA (maximum)
Voltage: ± 10VDC @ ± 10 mA
Current: 20 mADC; 20 V compliance

options

Relay Modules

Other Options:

All the Environmental features of the JA 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)
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