

JB

MULTI-CHANNEL ANALOG TRANSMITTER

applications

- 2 to 4 Channel Load Cell Summing
- System Interface To PLC/DCS
- Integrated Process Control Node
- Stand-Alone Weighing Systems
- Level Monitoring and Control
- Tank Farm Management
- Intrinsically Safe Applications
- Cost Effective OEM/VAR Solutions
- High Deadload/Low Liveload Weighing







features



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

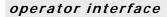
- High Performance Measurements-Grade Power Supply And Precision Amplifier
- Range Of Selectable Output Formats For Voltage Or Current
- Input, Output, Excitation And Zero Offset Parameters Are Field Configurable
- Compatible With Single Or Multiple "Summed" Transducers
- Preload Offsets Adjustable Up 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)
- Dedicated NEMA 4/4X Enclosure Or Panel Mount
- No Interaction Between Zero And Span
- Designed For Use In "Electrically Noisy" Industrial Environments
- Functional Test/System Calibration Pushbutton
- Switchable Load Cell Inputs Facilitate Sensitivity Tuning and Troubleshooting
- Excitation and Signal Trimming Potentiometers
- Easy Setup And Calibration
- Multiple LED's Monitor Input And Output Signal Levels
- Powers Up To (4) 350 Ohm or Greater Transducers
- The JB Series Is Compatible With The JA Series Signal Conditioning Plug-In Module



Innovative Measurement Solutions



specifications



Status Annunciators: Functional Test Pushbutton:

Calibration Method:

Adjustments:

Summing Board Adjusments:



JB - BOARD ONLY

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 Compensation: Power:

environmental



TRANSMITTER MODULE

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; Noninteractive zero and span signals eliminate "crosstalk" influences. Integral potentiometers & switches; Zero offset (deadload); Transducer input ranging; Transmitter output ranging; Excitation voltage.

INT/EXT (SW2); Slide switch; "Internal" when used with JA module; "External" when used as a simple summing board (No JA module). Transducer Enable (SW1-1/4); Slide switch; "ON" enables transducer measuring; "OFF" disables transducer measuring. Signal Adjustment Potentiometers; 25 turn; Attenuates measurement signal; One per transducer channel.

Excitation Adjustment Potentiometers; 25 turn; Attenuates excitation voltage; One per transducer channel.

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 $0.01\%/1 \Omega$ 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

Operating Temperature Range:	-10° To +60 °C / 14° F To 140°F
Storage Temperature Range:	-20° To +70° C / -4° F To 158° F
Temperature Stability:	Better Than 0.02% of Span/°C
Humidity Range:	0 To 95% RH; Non-condensing
Board Dimensions:	8.75" high X 6.85" wide X 1.0" deep (3.75" deep w/ JA module)
Optional Enclosure Construction:	NEMA 4/4X steel or stainless steel
Enclosure Dimensions:	10" high X 8" wide X 4" deep (nominal)
Weight:	> 11 lbs. (5 kg)
Warranty:	One year; Limited

output **Output Ranges:** Optically isolated; Field selectable; Drives up to 1000 ohm load resistance Output Capability: 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

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).
10ms response time
11-pin sockets, DIN or surface mount; Aluminum DIN rail; NEMA 4/4X
enclosures; Explosion-proof enclosures ; DC power.

SENTRAN periodically introduces product enhancements. Specifications are subject to change without notice. Certified drawings are available upon request

