

Analog Transmitter

JFSeries

The JF Series is a efficient, compact analog transmitter with selectable ranges and adjustment capabilities. The JF Series is DIN rail mountable and powers up to four 350 ohm transducers.



Key Features

- Selectable Input Ranges of 0-10 mV, 0-20 mV or 0-30 mV
- Pre-Set Output Formats Of 0-20 mA Or 0-10 VDC (Bi-polar)
- Field Fine Tune Adjustment of Span and Zero Offset Parameters
- 10 VDC Bridge Excitation
- Powers up to Four 350 Ohm Bridge Transducers
- Drives up to 500 Ohm Loop Resistance

Other Features

- High Performance Precision Amplifier
- Adjustable Analog Filter for Optimum Signal Stability
- CE Conformity
- DIN Rail Mount
- Designed for Use in "Electrically Noisy" Industrial Environments
- Easy Setup and Calibration
- NEMA 4/4X (IP66) and Explosion-Proof Housings are Available
- Power LED
- Optional Din Rail Mount Power Supply (Model KF3)
- One Year Warranty



KF3 POWER SUPPLY





For more information call 1-888-545-8988

SENTRAN, LLC 4355 LOWELL STREET, ONTARIO, CA 91761, U.S.A. **888-545-8988** T: 909-605-1544 FAX: 909-605-6305 **www.sentranlic.com**

APPLICATIONS

- Strain Gage Measurement
 - Load Cells
 - Force Transducers
 - > Torque Transducers
 - Pressure Transducers
- Single or "Summed" Transducers
- Interface To PLC/DCS
- Process Control
- Weighing Systems
- Level Monitoring and Control
- Cost Effective OEM/VAR Solutions

JF Series Specifications

Innovative Measurement Solutions



OPERATOR INTERFACE

Status Annunciators: 1; Red LED for power

Calibration Method: Two-Point; Zero and Span; Fine tuning potentiometers

Range Selection: Dip switches; 10 mV, 20 mV or 30 mV

Wiring Connections: 9-Position screw terminal strip for Power, Load cell I/O and Analog output

INPUTS/OUTPUTS

Input Compatibility: Strain gage; Up to (4) four 350 ohm full bridge transducers; Up to (8) eight 700 ohm full bridge transducers; Periph

eral summing interface required for more than (1) transducer input (Refer to SENTRAN N Series Summing/ Junction

Boxes.)

Output Formats (Jumper Selectable): Voltage: 0-10; 2KOhm minimum load

Current: 4-20 mA; 500 0hm maximum load

FUNCTIONAL PARAMETERS

Linearity: Better Than Or Equal To 0.2% Full Scale (FS)

Measurement Response Rate: 70ms typical

Span Range @ Full Scale: Three ranges: 10 mV, 20 mV or 30 mV; Dip switch selectable

Span Adjustment: ±5% via 20-turn potentiometer

Zero Offset: 10%; +3% to -7% via 20-turn potentiometer

Bridge Excitation Voltage: 10 VDC

Excitation Current Rating: 200 mA; (4) 350 ohm bridge transducers

Remote Sensing: Six wire compatible

Low Pass Filter: Time Constant Adjustable via trimming potentiometer; 5-100 ms

Common Mode Rejection: 100dB (minimum) Power (Standard): 24 VDC \pm 15%

Power (Optional): Model KF3 DIN rail mount supply; 115/230 VAC ±10% (50/60Hz) to 24 VDC

Power Consumption: 5 Watts

ENVIRONMENTAL

Compensated Temperature Range: -10° To $+40^{\circ}$ C / 14° F To 104° F Operating Temperature Range: -10° To $+50^{\circ}$ C / 14° F To 122° F Storage Temperature Range: -20° To $+55^{\circ}$ C / -4° F To 131° F Temperature Stability: Retter Then 20° Page (%C

Temperature Stability: Better Than 20ppm/°C Humidity Range: 0 To 85% RH; Non-condensing

CE Conformity: EN50081-1 E EN 50082-2 EMC; EN61010-1 LVD

Construction: Thermal-form ABS plastic chassis; Metal-jacketed signal processing section

Dimensions: 3.0" (76mm) high X 3.5" (90mm) wide X 2.5" (65mm) deep

Weight: 4.25 ounces (0.11kg)
Warranty: One year; Limited

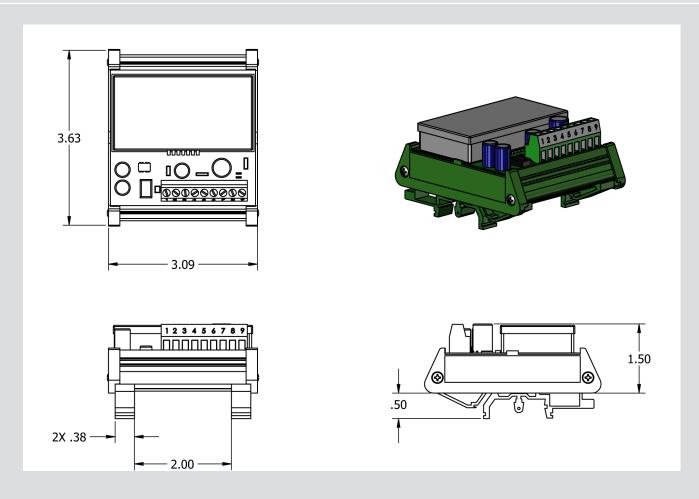
OPTIONS

Power Supply Module: Model KF3; 115/230 VAC ±10% (50/60Hz) to 24 VDC; DIN rail mountable

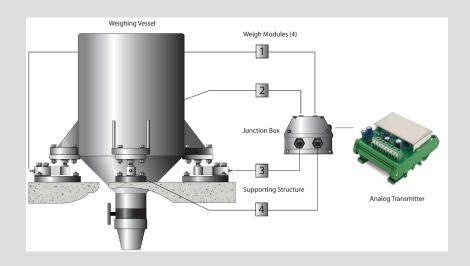
Four Channel Transmitter: Model KJ3-B; Supports (4) four discrete load cell inputs

Enclosures: NEMA 4/4X; Reinforced Fiberglass, Powder-coated steel and stainless steel; Explosion-proof





Typical Weighing System



Legal Disclaimer



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