

# SUMMING BOX/TRANSMITTER

## 4 TO 20 mA AND 0 TO 10 Vdc OUTPUTS

**Summing Up to  
4 Load Cells  
with Voltage or  
Current Output**

### JBOX-4800



JBOX-4800 shown smaller than actual size.

- ✓ Complete Strain Gage Bridge Signal Conditioner
- ✓ High-Gain, Low-Drift Amplifier
- ✓ Wide Input Range from 5 to 50 mV Full Scale
- ✓ 80% Tare Offset
- ✓ 3-Way Isolation
- ✓ NEMA 4 (IP65) Enclosure
- ✓ High/Low Setpoint-Ready User Plug-In Relays

The JBOX-4800 is an AC- or DC-powered summing transmitter for up to 4 load cells, with user-selectable output options of 0 to 20 mA, 4 to 20 mA, 0 to 10 Vdc, or 2 to 10 Vdc. It has a built-in excitation supply capable of delivering up to 120 mA from 5 Vdc to 10 Vdc. Three-way isolation is standard: input to output and power. Designed with industrial weighing applications in mind, this J-box has a large tare offset (80% of a 3 mV signal @ 10V excitation). The board is wired and socketed for high and low setpoint/alarms. To activate them, the user buys the relays and plugs them in.

### SPECIFICATIONS

**Accuracy:**  $\leq \pm 0.1\%$   
**Temperature Range:** 10 to 35°C (50 to 95°F)  
**Total Temperature Coefficient:** 0.0025%/°C typical  
**Isolation (AC or DC, 3-Way):**  
 AC to Input or Output: 750 Vac  
 DC to Input or Output: 300 Vdc/500 pf  
**Amplifier:**  
 Input Range: 5 to 50 mV FS  
 Linearity:  $\pm 0.01$  FS  
 Temp Coeff.: 0.0015%/°C typical  
**Input Noise:** 0.1 to 10 Hz, 2 mV p-p  
**Tare Adjustment (3 Ranges):** -3 to 6.5 mV, 6.5 to 16 mV, 16 to 25 mV  
**Common-Mode Rejection Ratio:** 100 dB  
**Common-Mode Input Voltage:** 5 Vdc  
**Test Output Signal:** Adds 8 mA or 4V to signal  
**Loop Resistance (Current Output):** 0 to 1000  $\Omega$

**Maximum Current Load (Voltage Output):** 5 mA  
**Frequency Response:** -3 dB @ 10 Hz  
**Response Time:** 35 ms (10 to 90%)  
**Bridge Supply:** 5 to 10 Vdc @ 120 mA  
**Line Regulation:** <0.01% typical 0.002%  
**Output Noise:** <1 mVrms 120 Hz bandwidth  
**AC Power:** 115V (90 to 130V), 230V (180 to 260V)  
**DC Power:** 11 to 30V, 8 W  
**Weight:** 4.7 kg (10.5 lb)  
**Dimensions:**  
**NEMA 4 (IP65) Box:** 254 L x 203 W x 102 mm H (10 x 8 x 4")  
**Total:** 318 x 229 x 112 mm (12.5 x 9 x 4.4")

To Order	
MODEL NO.	DESCRIPTION
JBOX-4800	4-input summing transmitter

Ordering Example: JBOX-4800, AC/DC-powered summing transmitter.

LOAD CELLS  
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