

B8644 Strain Gauge Specifications ¹

Inputs & Type	Differential with Lemo 5 pin 0B panel socket Common, inverting and non-inverting inputs and excitation.
Gauge Configuration	Internal jumper selectable full, ½ and ¼ 120, 350 & 1kΩ supporting 2, 3 and 4-wire
Input Impedance	10GΩ
Input Offset	<50μV adjustable & 0.25μV/°C
Sensitivity	±2, 5, 10, 20, 50, 100, 200, 500mV, 1, 2, 5 & 10V
Bandwidth	>80kHz (gain 1-10), 10kHz (gain=100), 1kHz (gain=1000)
Excitation	Totally Variable 0-10VDC, current limited at 60mA
Bridge Balance	Fine/Coarse manual front panel voltage injection. Two balance LEDs with software adjustable levels for balance/alarm indication.
Bridge Calibration	User adjustable shunt resistor across any arm (2 from front panel) and ± cal switch.
Sensor Backoff	Off/On and ±0-10VDC backoff for single-ended input voltages
Anti-aliasing Filter Type	8 pole switched capacitance + guard filter Butterworth (Bessel or Elliptic optional)
Mode	AC, DC, Bypass & Channel Zeroed
Frequency	1, 2, 5, 10, 20, 50, 100, 200, 500Hz, 1, 2, 5, 10 & 20KHz Variable option.
Frequency Reference	Accuracy 0.01%
Gain Vs Fo	0.50 Fo -0.02 dB 1.00 Fo -2.7 dB 2.00 Fo -48 dB 4.00 Fo -78 dB
Main Output	Voltage ±10V peak to peak Type Single ended Connections Output connector or A/D via rack's motherboard.
Monitor Output	Via miniature front panel mounted Coax connectors.
Monitor LEDs	High/Low indicator LEDs, operating on output and programmable over ±10V range to indicate balance, overload or other output levels.

¹ Specification subject to change without notice