

B8833 ICP Sensor Conditioner Specifications ¹

Transducer Type	Constant current, 2-wire AC sensors (e.g. Piezoelectric transducers with integral preamp).	
Inputs & Type	Single ended, 10-32 Microdot (Optional: Miniature Coax socket)	
Bias Supply	<Constant current regulated 4mA at 30VDC 0.1mA to 4.1mA via software Open Circuit Voltage 12-30V via software	
Gain	1, 2, 5, 10, 20, 50, 100 & 200	
High-Pass Filter	0.016Hz, 0.16Hz & 1.6Hz input filter prior to gain stage via front panel switch	
Bandwidth	> 50kHz	
Noise	<10 μ V rms. referred to input (1Hz – 20kHz, x200 gain)	
Anti-aliasing Filter		
Type	8-pole Butterworth switched capacitance + guard filter	
Mode	AC, Bypass or 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	\pm 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.	
Status LEDs	Two front panel LEDs are provided. These monitor the voltage across the sensor and each can be set from 0 to +30V. They can be used to measure open/short circuit conditions and the raw signal for overload conditions. Can also monitor output digital via jumper selection.	

¹ Specification subject to change without notice