







MEMS Sensor Signal Conditioners



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Model Number	478A01	478B05	478A16	482C27
Channels	1	3	16	4
Sensor Input Type(s)	Single-ended MEMS Capacitive	Single-ended MEMS Capacitive	Single-ended MEMS Capacitive	Diff./Single-ended MEMS/Bridge, ICP®/Voltage
Compatible Sensor Series	3711, 3713	3711, 3713	3711, 3713	350x, 360x, 371x, 374x, Load Cells
Gain	Unity	Unity	Unity	x0.1 to x2000; x0.1 to x200 [5]
Output Range	±5 V	±5 V	±10 V	±10 V
Frequency Response (±5%) (Unity Gain)	DC to 2k Hz	DC to 2k Hz	DC to 70k Hz [3]	DC to 100k Hz
Temperature Range	+32 to +120 °F 0 to +50 °C	+32 to +120 °F 0 to +50 °C	+32 to +120 °F 0 to +50 °C	+32 to +120 °F 0 to +50 °C
Excitation Voltage	>16 VDC	17.3 VDC	18 VDC	0 to 12 VDC Unipolar or Bipolar [6]
Broadband Electrical Noise (1 to 100,000 Hz) (Gain x1)	8 µV rms [1]	5 µV rms	70 µV rms	50 µV rms
Power Required	27 VDC	33-38 VDC [2]	100 to 240 VAC, 50 to 400 Hz	9 to 18 VDC [2]
Input Connectors	4-Pin Jack	4-Pin Jack	(16) 4-Pin Jacks, (1) DB50 Female	(4) 8-Socket Mini DIN, (4) BNC Jacks
Output Connectors	BNC Jack	BNC Jacks	(16) BNC Jacks, (1) DB37 Female [4]	BNC Jacks
Size (Height x Width x Depth)	4.0 x 2.9 x 2.4 in 10.2 x 7.4 x 6.1 cm	6.3 x 2.4 x 11 in 16.0 x 6.1 x 28.0 cm	3.5 x 19 x 16.25 in 8.9 x 48.3 x 41.3 cm	3.2 x 8.0 x 5.9 in 8.1 x 20 x 15 cm
Weight	0.69 lb 312 gm	1.67 lb 756 gm	8.5 lb 3.9 kg	2.5 lb 1.13 kg
Supplied Accessories				
Power Cord	—	017AXX	017AXX	017AXX
Universal Power Adaptor	—	488B04/NC	—	488B14/NC
MCSC Control Software	—	—	—	EE75
Additional Versions				
Line Powered with Gain	445C01	—	—	—
Base Configurable Model with Selectable Options	—	—	478A17	—
8-channel	—	—	478A18	—
8-channel Base Configurable Model with Selectable Options	—	—	478A19	—
Screw Terminal Input Connector	—	478A05	—	—
3-Channel Differential Input Only	—	—	—	478A30
Additional Accessories				
AC Power Source	488A03 or F488A03	—	—	—
Battery Charger	488A02 or F488A02	—	—	—
9 VDC Ultralife Lithium Batteries (3)	400A81	—	—	—
DC Power Pack	—	488B07	—	—
Auto Lighter Adaptor	—	488A11	—	488A13
Input Mating Connector	AY	AY	AY, DB50 Male	8-pin Mini DIN, AC
Notes				
[1] Noise measured from 0.1 Hz to 10k Hz [2] Supplied with 85 to 264 VAC, 47 to 400 Hz Universal Power Adaptor [3] ±1% DC to 40 kHz (minimum) [4] BNC jacks on both front and rear panels [5] Maximum gain for bridge/MEMS input is x2000 and for ICP®/voltage is x200 [6] In bipolar mode, +Vexc track each other. They are equal and opposite. User selectable in 0.1V increments				

Hochwertige Messtechnik und Beratung aus einer Hand



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