

## BX8-AS INTERFACE BLUEDAQ SERIES DATA ACQUISITION SYSTEM (U.S. & METRIC)

### FEATURES & BENEFITS

- 8-Channel synchronized sampling
- Internal calculation of axis load values for 6-axis sensors
- Active scaling of analog outputs according to internal calculations
- $\pm 5V$ ,  $\pm 10V$ , 4-20mA, and 0-20 mA outputs
- 48K samples/sec/channel
- 24-bit internal resolution
- USB connection to PC
- Includes graphing and logging software
- Strain gage, mV/V,  $\pm 10VDC$ , and PT 1000 temperature inputs
- Excitation sense
- Full,  $\frac{1}{2}$  and  $\frac{1}{4}$  bridge compatible with 120, 350, and 1000 ohm bridge completion
- TEDS compatible
- ZERO button for 8-channel simultaneous tare
- 16 digital I/O
- Galvanic isolation: Analog input, analog output, digital I/O, USB

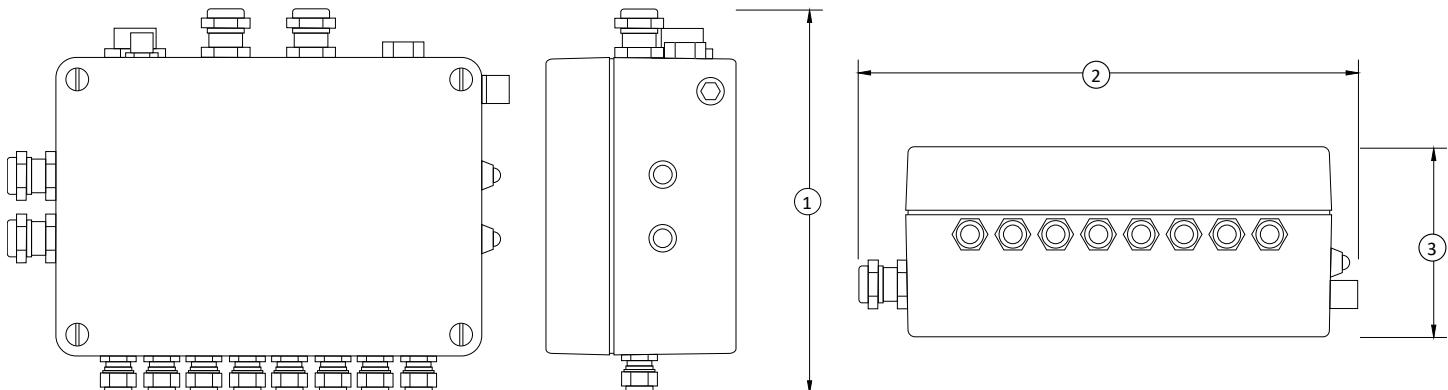
### STANDARD CONFIGURATION



### OPTIONS

- EtherCat
- CANbus/CANopen

MODEL BX8-AS (Shown)



### DIMENSIONS

1		2		3	
mm	in	mm	in	mm	in
180	7.1	225	8.87	89.5	3.5

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### SPECIFICATIONS

PERFORMANCE	
Accuracy Class – %	0.05
Nonlinearity – % range	+/- 0.02
Sample Rate - per channel – samples/sec	48,000S synchronous
Digital Output Data Rate – values/sec	0.75 to 48,000
Resolution – bit	24
Resolution – noise limited	> 100,000 parts @ 10/s data rate >> 20,000 parts @ 2000/s data rate > 9,400 parts @ 12,000/s data rate
Signal Input Filter – (3dB) – Hz	28, 850, 11.4k 1st order, switchable
Digital Output Filter – (3dB) – Hz <i>Individually configurable for each channel</i>	0.18 to 15K includes high pass, low pass, band pass and band stop
SENSOR INPUTS	
Input Channels	8
Bridge Input Range – mV/V	2.0, 3.5, or 7.0
Bridge Input Impedance – MΩ - (pF)	> 20 (300)
Bridge Excitation Voltage – VDC	8.75, 5, or 2.5
Bridge Excitation Current – mA	135
Bridge Input Type – wire	4 or 6
Bridge Completion – Ω	¼ and ½, 120, 350 or 1000
CMMR – dB – DC – 100 Hz	>120, >100
Analog Input Range – VDC	+/-10
Analog Input Resistance – MΩ	10
PT1000 thermocouple – Ω	1000

ANALOG OUTPUTS		
Outputs types – V – mA <i>Individually configurable for each channel</i>		±10, ±5, 0-5, 0-10, 4-20, 0-20
Analog Output Scaling		Via software, active scaling capability
Analog Output Resolution – bit		16 over scaled range
Analog Output Update Rate – Hz		Up to 48K
DIGITAL INPUTS/OUTPUTS		
DIOs		16 configurable
USB - 8 channel packets – bit – /sec		16 integer, 48K, raw data 24 integer, 24K, raw data 32 floating point, 9.6K, scaled data 6-axis sensor: 32 floating point, 6K scaled data
ENVIRONMENTAL		
Operating Temperature Range	°C	0 to +50
	°F	+32 to +122
Storage Temperature Range	°C	-20 to +70
	°F	-4 to +158
POWER		
Supply – VDC		12-28
Supply – Watt		< 12
MECHANICAL		
Dimensions (L x W x H)	mm	222 x 180 x 89.5
	in	8.7 x 7.1 x 3.52
Weight	kg	2.4
	lbs	5.29
Protection Level		IP67
Connection Type		24-pin M16 or screw terminals

### BLUEDAQ SOFTWARE

