

# 7700 Series Advanced Basic 32 Signal Conditioner



## Features

- Sampling of up to 32 channels per signal conditioner
- 16 Bit A/D resolution with Bi-polar and Uni-polar measurements
- Utilizes a graphical user interface for configuration
- Digital signal conditioner maximizes the A/D resolution per channel
- Allows for all types of high level signals to be acquired
- Modular design allows for high channel counts
- Extremely low per channel cost

The Advanced Basic 32 signal conditioner allows sampling of up to 32 sources at one time from just one module. The 7700 series signal conditioners utilize a graphical user interface for configuration, which allows signal conditioner settings to be saved in the software. Utilizing the input terminal box (J03480), connections can be made to the signal conditioner by simple BNC connections allowing for quick input changes. With its ability to take Bi-polar measurements, the signal can be truly maximized over the Full Scale range. In addition to Bi-polar measurements, the data is recorded to 16 Bit resolution yielding extremely high precision.

# Technical Data Sheet

## Model 13-7715-02

### Advanced Basic 32 Signal Conditioner

#### SPECIFICATIONS

##### General

# Channels	32 Single-ended or 16 differential
Type of Coupling	DC
Resolution	16 Bits
Maximum Rate	250K Samples / second aggregate
Digitizer	Multiplexed

##### Signal Input

Input Impedance	100k $\Omega$ to each input
Input Range	$\pm$ 1.25, 2.5, 5, 10, 20V Full Scale 0 - 1.25, 2.5, 5, 10, 20V Full
Scale	
Maximum Input (Max without damage)	$\pm$ 50V DC, AC Peak
Analog Bandwidth	DC-10 KHz

##### Accuracy Specifications

Gain Accuracy, % of FS	<0.7%
Offset Accuracy, % of FS	<0.5%
Linearity, % of FS	<0.2%
Noise, p-p	<0.5%
Common Mode Voltage	$\pm$ 20V
Common Mode Rejection	$\geq$ -80 dB min
Crosstalk (60Hz)	<60 dB

#### ORDERING INFORMATION

Part Number	Description
13-7715-02	Basic 32 Signal Conditioner

##### Accessories

J03480	Input terminal box, 37-pin to BNCs for Basic 32
J02936	Cable Set BNC to BNC 1-8
J02937	Cable Set BNC to BNC 9-16
J03087	Cable Set BNC to BNC 17-24
J03088	Cable Set BNC to BNC 25-32

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