

7700 Series Advanced Basic 4 Signal Conditioner



Features

- 16 Bit resolution
- Standard BNC connection
- Uni-polar or Bi-polar measurements available
- Utilizes a graphical user interface for configuration

The Advanced Basic DC4 (ABDC4) signal conditioner was designed to provide a clean interface between laboratory hardware and the ACQ-7700 Acquisition Interface Unit. Instruments such as flow meters, transducers, and gas analyzers provide an analog output with a standard BNC connection. Capitalizing on this common connector, simple BNC connectors on the Advanced Basic DC 4 make connection simple, without the need for special interface cables. Since the 7700 series signal conditioners utilize a graphical user interface for configuration, researchers have the capability to save amplifier settings within the software.

Technical Data Sheet

Model 13-7715-04

Advanced Basic DC 4 Signal Conditioner

SPECIFICATIONS

General

# Channels	4 Single ended
Type of Coupling	DC
Resolution	16 Bits
Maximum Rate	250K Samples / second per Channel
Digitizer	Multiplexed

Signal Input

Input Impedance	100k Ω 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 - 10K Hz
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Accuracy Specifications

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

ORDERING INFORMATION

Part Number	Description
13-7715-04	Advanced Basic DC 4 Signal Conditioner

*Specifications are current at publication.
Due to DSI's continuing product improvement program,
specifications may change without notice.*

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