

Model Number

481A02

ICP® SIGNAL CONDITIONER

Revision: K
ECN #: 31504

ELECTRICAL

Channels 16

Display: LED (red) - Bias
LED (yellow)

Sensor Excitation

Fixed Gain: Accuracy (at 500 Hz)
Linearity (10-50 kHz)
Frequency Response (-5%)

Noise (spectral): X100 only
Typical
1 Hz
10 Hz
100 Hz
1 kHz

Broadband Noise 1 Hz-10 kHz (typical)

Input Range

Output Range

Output DC Offset (maximum)

Output Impedance

Channel Isolation (minimum)

Power Requirements:

Maximum Frequency

ENVIRONMENTAL

Operating Temperature

Relative Humidity (maximum)

PHYSICAL

Connectors - Signal:

Connector - Power

Size (H x W x D):

Weight (maximum)



[4]

All specifications are at room temperature unless otherwise specified

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In the interest of constant product improvement, we reserve the right to change specifications without notice.

VALUE

Open/Short Overload 24 ±1/3-20

x1 (unity)

±1

±1

0.5 - 100,000

0.5 - 60,000

x1

2.0

0.2

0.2

0.15

0.15

11.0

9.0 (Max.)

10 (±0.2)

10/2.0

50

50 (maximum)

72

100-240

0.6

47-63

32 to 120 [0 to 50]

85

1

1

16

IEC 320

3.5 x 19.0 x 16.25

[88.8 x 483 x 413]

15.0 [6.82]

FEATURE LIST

035 - Programmable Gain

Gain Accuracy

Linearity

Gain

Noise (spectral):

Typical

1 Hz

10 Hz

100 Hz

1 kHz

10 kHz

Broadband Noise 1 Hz-10 kHz (typical)

Frequency Response (-5%)

080 - 16 BNC Inputs Rear Panel

101 - Digital Control with RS-232/RS-485

Interface

Connectors

Baud Rate

Start, Data, Stop, Parity

Handshaking

RS-485 Devices In System

Cable Length (maximum): RS-232

Cable Length (maximum): RS-485 *

Supplied Accessories

102 - Memory Default

103 - Front Panel Control/Display

Keypad

Reset

Display Dot Matrix

%

%

gain

µV/Hz

µV/Hz

µV/Hz

µV/Hz

µV/Hz

µV

kHz

D-sub-9

bits/sec

1, 8, 1, No

RTS/CTS

16

ft

ft

cable

row/col

1

1

x1, x10, x100

x1

2.0

0.2

0.2

0.15

0.15

11.0

65

2

9,600

1, 8, 1, No

RTS/CTS

16

50

200

009N03

4

1

2/16

[3]

[2]

NOTES:

[1] Constant current factory set at 4 mA.

[2] RS-485 interface uses proprietary interconnect of PCB equipment only.

[3] Serial number 253 and greater.

[4] See PCB Declaration of Conformance PA024 for details.

[5] Noise test per A-107-2, using 401A05.

SUPPLIED ACCESSORIES:

Model 017 Power Cable

009N03

Ferrite Bead (part number 100-2973-30)

EE-75 481A Control Software (1 CD ROM)

* Not Tested

Drawn: LH

Date: 10/8/09

Engineer: CPH

Date: 9/16/09

Sales: JJM

Date: 9/21/09

Approved: EB

Date: 9/23/09

Spec Number: 8090



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