

Model Number

481A02

ICP® SIGNAL CONDITIONER

Revision: K
ECN #: 31504

ELECTRICAL

	UNITS	VALUE
Channels		16
Display: LED (red) - Bias LED (yellow)		Open/Short Overload
Sensor Excitation	V/mA	24 ±1/3-20
Fixed Gain:	%	x1 (unity)
	%	±1
	%	±1
Frequency Response (w/5 kΩ load minimum)	Hz	0.5 - 100,000
Accuracy (at 500 Hz)	Hz	0.5 - 60,000
Linearity (10-50 kHz)	gain	x1
Response (-5%)	μV/Hz	2.0
X100 only	μV/Hz	0.2
Typical	μV/Hz	0.2
1 Hz	μV/Hz	0.15
10 Hz	μV/Hz	0.15
100 Hz	μV/Hz	0.15
1 kHz	μV/Hz	0.15
Broadband Noise 1 Hz-10 kHz (typical)	μV/Hz	0.15
Input Range	μV	11.0
Output Range	V	9.0 (Max.)
Output Range (w/5 kΩ load minimum)	Vpk	10 (±0.2)
Output DC Offset (maximum)	V/mA	10/2.0
Output Impedance	mV	50
Channel Isolation (minimum)	ohms	50 (maximum)
Power Requirements:	dB	72
	VAC	100-240
	A	0.6
	Hz	47-63
	°F [°C]	32 to 120 [0 to 50]
	%	85
ENVIRONMENTAL		
Operating Temperature	D-sub-50	1
Relative Humidity (maximum)	D-sub-37	1
PHYSICAL	BNC	16
Connectors - Signal:		IEC 320
Input (rear)	in	3.5 x 19.0 x 16.25
Output (rear)	[mm]	[88.8 x 483 x 413]
Output (front)	lb [kg]	15.0 [6.82]
Connector - Power		
Size (H x W x D):		
Weight (maximum)		

FEATURE LIST

Item	Description	Units	Value
035 - Programmable Gain			
Gain Accuracy	%		1
Linearity	%		1
Gain		x1, x10, x100	x100 [5]
Gain	gain		20.0
Noise (spectral):			0.6
Typical	μV/Hz		0.6
1 Hz	μV/Hz		0.6
10 Hz	μV/Hz		0.6
100 Hz	μV/Hz		0.6
1 kHz	μV/Hz		0.6
Broadband Noise 1 Hz-10 kHz (typical)	μV		11.0
Frequency Response (-5%)	kHz		56
080 - 16 BNC Inputs Rear Panel			
101 - Digital Control with RS-232/RS-485			
Interface			
Connectors	D-sub-9		2
Baud Rate	bits/sec		9,600
Start, Data, Stop, Parity			1, 8, 1, No
Handshaking	RTS/CTS		
RS-485 Devices In System			16
Cable Length (maximum):	ft		50
Cable Length (maximum):	ft		200
Supplied Accessories	cable		009N03
102 - Memory Default			
103 - Front Panel Control/Display			
Keypad			4
Reset			1
Display Dot Matrix	row/col		2/16



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.

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	Engineer: CPH	Sales: JJM	Approved: EB	Spec Number:
Date: 10/8/09	Date: 9/16/09	Date: 9/21/09	Date: 9/23/09	8090



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