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LINE POWER SUPPLY

Series 482A

OPERATOR'S MANUAL

NOTE: The 482A series Power Supply includes 4 models as follows:

482A Single channel with 10-32 input connector and BNC output connector.

482A04 Four channel with 10-32 input connector and BNC output connector.

482A05 Four channel with BNC input and output connectors.

482A06 Single channel with BNC input and output connectors.

PCB®
PIEZOTRONICS

PCB PIEZOTRONICS, INC. 3425 WALDEN AVENUE DEPEW, NY 14043-2495 PHONE 716-684-0001 FAX 716-684-0987

PIEZOTRONICS

482 Series Operation Manual

1.0 INTRODUCTION

The models 482A (single channel) and 482A04 (4 channel) are line-operated power units for ICP® transducer systems.

These units provide constant current excitation to the built-in transducer amplifier (or in-line adaptor amplifiers) and decouple the signal from the DC bias voltage. (See Guide G-0001 for more detailed coverage of the ICP concept).

The units also contain provision for fault monitoring each channel, as well as provision for varying the constant current output over the range of 2 to 20 mA. Factory set at 4 mA.

2.0 DESCRIPTION

The Series 482A power units contain a well regulated 24V D.C. power supply and one (or 4) constant current circuit(s) to provide power for one (or 4) transduction channel(s). The power units are identical except for the number of channels.

The rear panels contain 10-32 micro jack(s) for transducer connection ("XDCR") and BNC jack(s) for signal output ("SCOPE") connection.

The signal information is decoupled from the transducer bias level by a 10μF tantalum coupling capacitor and brought out to the "output" jack.

The bias monitor consists of a color coded front panel voltmeter and, in the 4-channel version only, a 4-position selector switch. The switch selects the bias voltage at each channel and displays it on the front panel meter. The meter in the single channel version permanently monitors the transducer bias level. See the transducer manual for current bias level.

3.0 INSTALLATION

482A series are identical in physical size. See the installation drawing supplied as part of this manual for outline dimensions, as well as, jack and control locations.

Install power unit in proximity to the readout instrument. It is necessary only to provide access at the rear panel for electrical connections. No ventillation is required for these units. PCB Model 400A03 Rack Mounted Adaptor will hold up to 8 482A series units.

4.0 OPERATION

Plug 3-wire line cord into a source of 120V 60 Hz power and switch power to "on".

To convert from 120V to 230V operation, remove the top cover of unit. Remove the two suitcase jumper wires illustrated in figure1-A and place one as shown in figure 1-B for 230V operation. Insert line plug in 230V outlet.

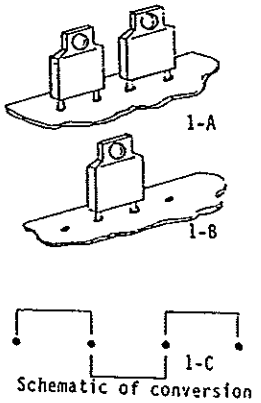


Figure 1 Converting to 230V Operation

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4.0 OPERATION (cont'd)

With no transducer connected to the "XDCR" connector, the front panel bias indicator meter (see figure 1) will indicate full scale (yellow) which corresponds to open circuit power supply voltage.

Meter Reading	Yellow	Green	Red
Condition	Open	Ok	Short

Figure 2 Fault Monitor Table

When an ICP transducer (or adaptor or in-line amplifier) is connected to the input jack of any channel, the front monitor meter will indicate approximately midscale (green) if the transducer or amplifier is functioning properly.

It will not read midscale if the transducer bias is 3 to 5V.

If a transducer cable is faulty (open) or the transducer built-in amplifier is open, the meter will indicate in the yellow (full scale) area.

Should a cable or transducer be shorted, the meter will indicate zero volts (red).

Immediately after connecting readout instrument (oscilloscope, meter, recorder, etc.) to the "output" jack, the 10μF coupling capacitor will begin charging through the input resistance of the readout instrument. This charging will cause an apparent "drifting" of the output signal until the capacitor is fully charged, a normal condition.

The nornal amount of leakage thru the 10μF coupling capacitor will normally result in a +30 mV maximum offset with a 1 MEGOHM readout load.

4.1 COUPLING TIME CONSTANT, AC COUPLED

The coupling time constant is the product of the coupling capacitor (10μF) and the input resistance of the readout instrument. (See Figure 3)

(EQ 1)

$TC\ (sec) = C_c\ (farads) \times R_{in}\ (ohms)$

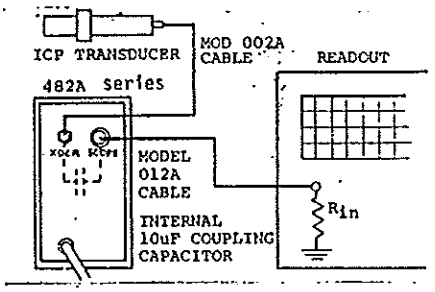


Figure 3 Typical Standard AC Coupling

Normally, it is desirable to keep the coupling time constant long with respect to the transducer discharge TC to minimize the effect of the coupling TC on low frequency response.

Typical coupling time constants for various values of readout input resistance are:

R_{in}	TC
10 Megohm	100 sec
1 Megohm	10 sec
100 K ohm	1.0 sec
10 K ohm	.1 sec
1 K ohm	.01 sec

4.2 GALVANOMETERS

Low current galvanometers can be driven by the 482A series power units, but a series resistor is needed to range the galvanometer. This may be provided as a part of the galvanometer input.

To determine the approximate value of the necessary series resistor, divide the full scale transducer output voltage by the full scale galvo current, e.g., for a transducer with 5 volt F.S. output signal and a galvo which requires 5 mA full scale input current:

(EQ2)

$$R = \frac{5V}{5\ mA} = 1\ K,\ Ohms$$

Remember that the low resistance load will affect the low frequency response of the system and may cause some signal loss.

To maintain good frequency response, a power unit containing a buffer amplifier (such as the PCB Model 484B) or a separate current amplifier must be used.

When driving galvanometers or long lines, it may be necessary to increase the constant current drive to the transducers, as described in the next section.

4.3 DRIVING LONG CABLES

The Series 482A Power Units are normally supplied with the constant current output to the transducer set at 4 mA nominal.

This is adequate for most laboratory and field applications. Special situations such as driving extra-long cables (beyond 100 ft.) with high frequency or fast rise time pulses, may require increasing the transducer drive current to 20 mA or higher.

It has been found that often, when driving fast rise time pulses over long lines, system performance can be optimized by "tuning" the drive current to the line, i.e., by finding the best current setting for the particular set of physical parameters established by the transducer, line length, line termination, pulse rise time, etc.

The optimum current setting is best determined by experimentation with your particular test setup. A good rule of thumb is to use the lowest current consistent with satisfactory results to minimize transducer self-heating and noise.

Another technique would be to use the Model 073A Impedance Matching Resistor connected immediately after the transducer. This variable resistor can then be used to "tune" the current to the line.

One of the best approaches is to test the long line with a signal generator at a frequency of interest.

4.4 SETTING THE CONSTANT CURRENT

To set the constant current, remove the protective outer case by removing the 4 screws in the rubber feet at the bottom surface. Locate the current adjust potentiometer (refer to Figure 4).

Connect a 0-30 mA D.C. meter (or multimeter) to the "XDCR" jack (as shown in Figure 5).

NOTE: On the 4-channel 482A04, use any "XDCR" jack since all channels are adjusted simultaneously by the single potentiometer, to the same current value.

The constant current value is read directly on the milliameter when connected as shown.

Vary the setting of the current adjust pot to set current to a new level.

CAUTION: It may be possible to exceed 20 mA slightly. Do not do so as to operate an ICP transducer or amplifier above 20 mA may be harmful.

Use care to avoid shorting components with metal screwdriver blades.

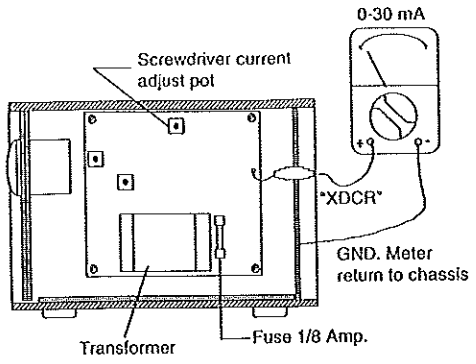


Figure 4 Current Adjust Pot Location

4.5 ALTERNATE CONNECTOR FOR BEST LOW FREQUENCY RESPONSE*

With the 482A connected as shown in Figure 3, the low frequency response of the coupling circuit is determined by the relationship:

(EQ 3)

$$\text{-3db Freq. } f_o = \frac{.16 \quad \text{Hz}}{(R_{in}) \times (10\mu f)}$$

Equation (3) gives the frequency at which the coupling circuit will be -3db down.

The coupling time constant (TC), as previously stated in EQ 1 is:

(EQ 4)

$$TC = (R_{in}) \times (10\mu f) \text{ seconds}$$

At times, especially during calibration, or when trying to extend low frequency response, the coupling time constant may prove to be short and will be the determining factor in low frequency response.

* The Model 484B Power Supply will provide the optimum low frequency response.

To take full advantage of the discharge time constant of the transducer, an alternate connection can be used provided the readout device can handle the 12V bias plus the output signal experienced which could be as high as +22VDC.

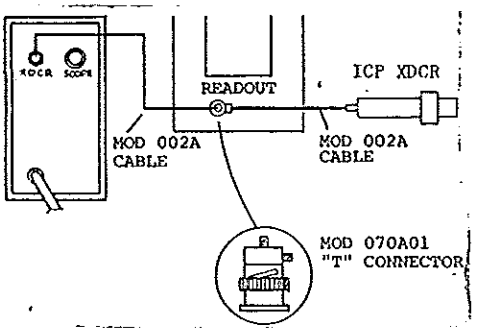


Figure 5 Direct Coupled Connection

With the circuit wired as shown in Figure 5 using a Model 070A01 "T" connector, the readout instrument is directly coupled to the transducer but the +11 volt bias level must be zeroed out by the readout device.

4.6 ZERO CLAMP

When making repetitive measurements which produce asymmetrical waveforms, it is often necessary to clamp the output voltage to zero baseline to avoid the averaging effect typical of all piezoelectric systems. This phenomena is characterized by a slow drift of the signal to the point where the included area under the waveform above ground is equal to the included area below ground.

PCB Model 484B Power Supply incorporates two different clamping circuits to satisfy this type of measurement.

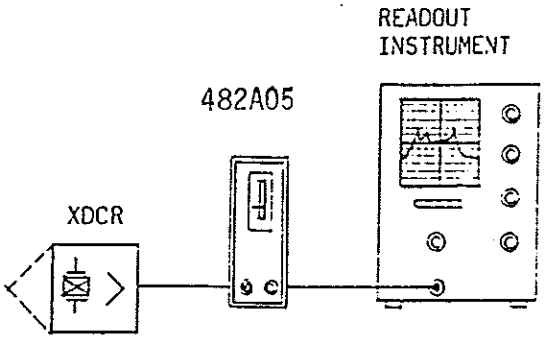


Figure 6 Typical System Connection

5.0 MAINTENANCE AND REPAIR

Aside from the current setting, there are no other adjustments to perform on the Series 482A units.

No maintenance is required for these units and it is suggested, should trouble occur, the factory be contacted for assistance.

If it is determined that the unit should be returned, please include a brief note describing the problem.

PCB® PIEZOTRONICS

SPECIFICATIONS

ICP® Sensor Line Power Unit

Model No. 482A

Revisions -C- Rev # 8246 BM 9/22/97

ELECTRICAL

Supply Voltage		volt	+24/Channel (±1V)	
ICP® Sensor Excitation Current (Constant Current Source)		mA	2-20/Channel	[1]
Time Constant		sec	10 (-0, +50%)	[2]
Low Frequency Response		Hz	<0.1 -5%	
High Frequency Response		kHz	>1,000 -5%	
DC Offset (maximum)		mV	<30	
Noise Broadband (1 Hz-10 kHz)		µV [dB]	<6.37 [-104]	
Typical Spectral Noise:	at 1 Hz	µV/√Hz [dB]	2.27 [-113]	
	at 10 Hz	µV/√Hz [dB]	0.09 [-142]	
	at 100 Hz	µV/√Hz [dB]	0.05 [-147]	
	at 1 kHz	µV/√Hz [dB]	0.04 [-149]	
	at 10 kHz	µV/√Hz [dB]	0.03 [-150]	
Voltage Gain			1 ±1%	
Fault Monitor Meter		V/FS	24 ±1V	
Power Required (50-400 Hz)		VAC/A	115 ± 10%/0.12 (max)	[3]

PHYSICAL

Connectors:	Input (sensor)	type	10-32 Jack	
	Output	type	BNC Jack	
	AC (power) Input	type	IEC 320	
Size (H x W x D):		in	4.3 x 1.8 x 6.0	
		[cm]	[109,2 x 45,7 x 152,4]	
Weight		lb [gm]	2 [907,2]	

NOTES:

[1] Units supplied with current set at 4 mA (±0.5 mA). User adjustment (internal).

[2] With ≥1MΩ input impedance of readout device.

[3] Unit set to 230 VAC when ordered as "F482A."

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

SUPPLIED ACCESSORIES:

Model 017 AC Line Cord

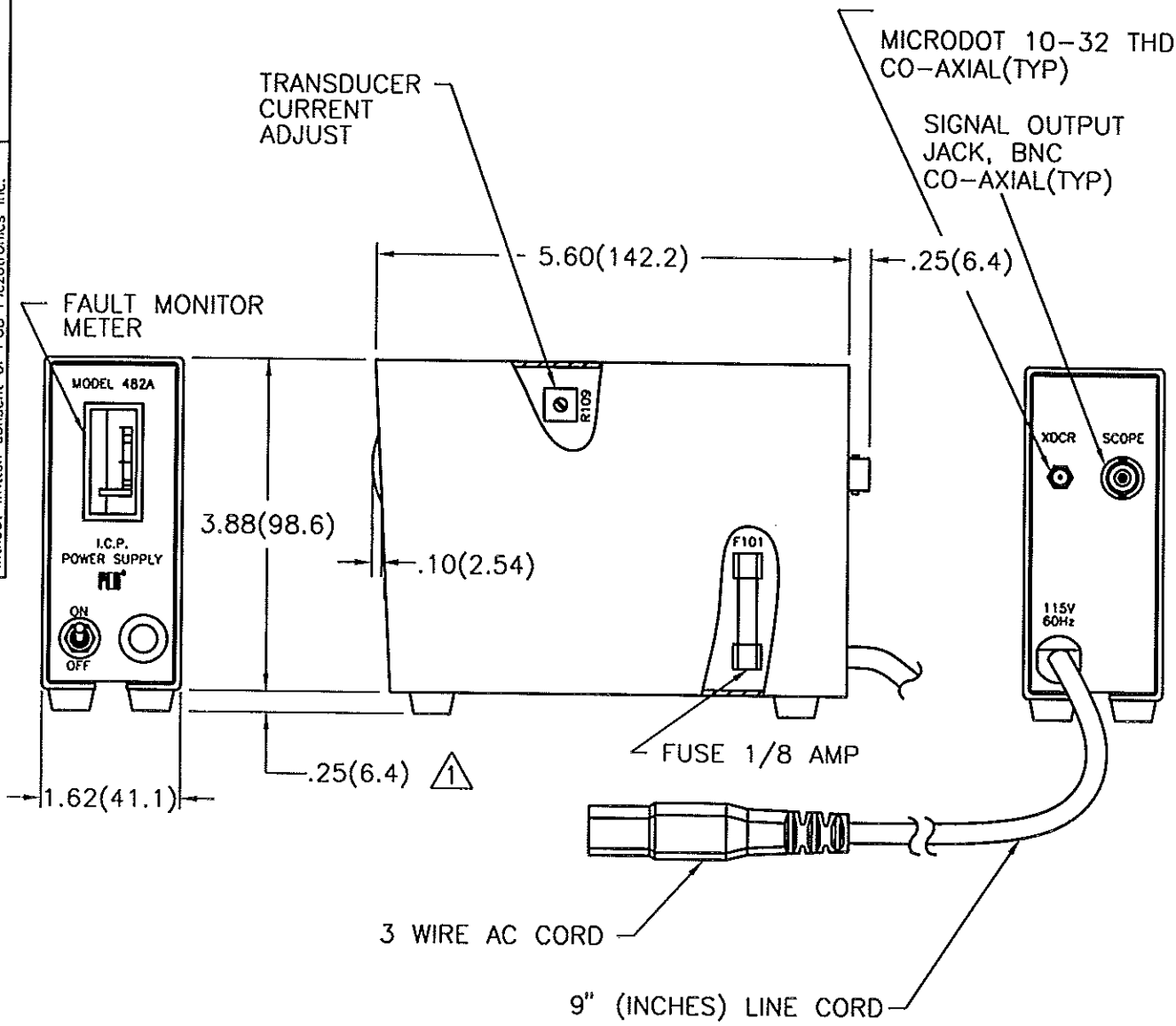
Drawn	[signature]	9/19/97	Spec No. 482-1010-80
Engineer	RLH	9/22/97	
Sales	EJR	9/22/97	
Approved	[signature]	9/22/97	Sheet 1 of 1

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UNLESS SPECIFIED TOLERANCES	
DIMENSIONS IN INCHES DECIMALS XX ±.01 XXX ±.005 ANGLES ±2 DEGREES	DIMENSIONS IN MILLIMETERS (IN PARENTHESIS) DECIMALS XX ±0.3 XXX ±0.13 ANGLES ±2 DEGREES
FILLETS AND RADII .003 - .005	FILLETS AND RADII (0.07 - 0.13)
DD011 REV. A 05/26/95	

DRAWN	[illegible]	6/26/97	MFG	RMS	6/26/97
CHK'D	Rent	6/26/97	ENGR	CPK	6/26/97
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TITLE: OUTLINE DRAWING
MODEL 482A
ICP POWER SUPPLY

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PHONE: (716) 684-0001

CODE IDENT. NO.	DWG. NO.
52681	6619
SCALE: .5X	SHEET 1 OF 1

PCB® PIEZOTRONICS

SPECIFICATIONS

4-Channel ICP® Sensor Line Power Unit

Model No. 482A04

Revisions See ECR # 8246 9m 9/22/97

ELECTRICAL				
Channels		number of	4	
Supply Voltage		volt	+24/Channel (±1V)	
ICP® Sensor Excitation Current (Constant Current Source)		mA	2-20/Channel	[1]
Time Constant		sec	10 (-0, +50%)	[2]
Low Frequency Response		Hz	<0.1 -5%	
High Frequency Response		kHz	>1,000 -5%	
DC Offset (maximum)		mV	<30	
Noise Broadband (1 Hz-10 kHz)		µV [dB]	<7.58 [-102]	
Typical Spectral Noise:	at 1 Hz	µV/√Hz [dB]	1.25 [-118]	
	at 10 Hz	µV/√Hz [dB]	0.09 [-141]	
	at 100 Hz	µV/√Hz [dB]	0.07 [-144]	
	at 1 kHz	µV/√Hz [dB]	0.04 [-149]	
	at 10 kHz	µV/√Hz [dB]	0.03 [-150]	
Voltage Gain (all outputs)			1 ±1%	
Fault Monitor Meter		V/FS	24 ±1V	
Power Required (50-400 Hz)		VAC/A	115 ± 10%/0.12 (max)	[3]
PHYSICAL				
Connectors:	Inputs (sensor)	type	10-32 Jack	
	Outputs	type	BNC Jack	
	AC (power) Input	type	IEC 320	
Size (H x W x D):		in	4.3 x 1.8 x 6.0	
		[cm]	[109,2 x 45,7 x 152,4]	
Weight		lb [gm]	2 [907,2]	

NOTES:

[1] Units supplied with current set at 4 mA (±0.5 mA). One user adjustment, controls all channels (internal).

[2] With ≥1MΩ input impedance of readout device.

[3] Unit set to 230 VAC when ordered as "F482A04."

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

SUPPLIED ACCESSORIES:

Model 017 AC Line Cord

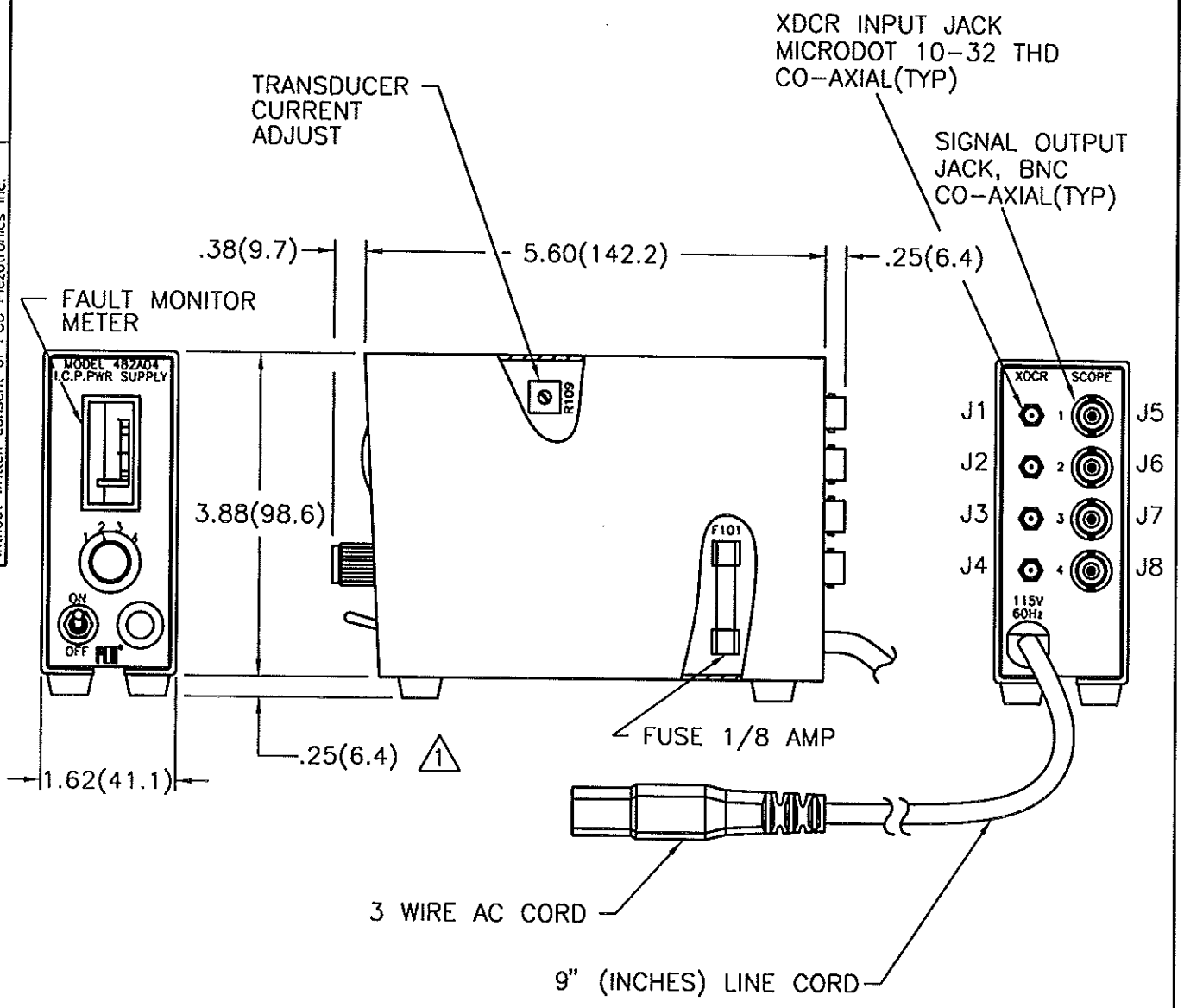
Drawn	[illegible]	9/19/97	Spec No. 7055
Engineer	PLH	9/22/97	
Sales	EJR	9/22/97	
Approved	KJV	9/22/97	Sheet 1 of 1

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UNLESS SPECIFIED TOLERANCES	
DIMENSIONS IN INCHES DECIMALS XX ±.01 XXX ±.005 ANGLES ±2 DEGREES	DIMENSIONS IN MILLIMETERS (IN PARENTHESIS) DECIMALS XX ±0.3 XXX ±0.13 ANGLES ±2 DEGREES
FILLETS AND RADII .003 - .005	FILLETS AND RADII (0.07 - 0.13)
00011 REV. A 05/26/95	

DRAWN	[illegible]	6/26/97	MFG	[illegible]	6/27/97
CHK'D	[illegible]	6/26/97	ENGR	[illegible]	6/27/97
APP'D					

TITLE: OUTLINE DRAWING
MODEL 482A04
ICP POWER SUPPLY

PCB PIEZOTRONICS, INC.
3425 WALDEN AVE. DEPEW, NEW YORK 14043
PHONE: (716) 684-0001

CODE IDENT. NO.	DWG. NO.
52681	6620

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PCB® PIEZOTRONICS

SPECIFICATIONS

4-Channel ICP® Sensor Line Power Unit

Model No. 482A05

Revisions -A- Rev # 8246 dm 9/22/97

ELECTRICAL				
Channels		number of	4	
Supply Voltage		volt	+24/Channel (±1V)	
ICP® Sensor Excitation Current (Constant Current Source)		mA	2-20/Channel	[1]
Time Constant		sec	10 (-0, +50%)	[2]
Low Frequency Response		Hz	<0.1 -5%	
High Frequency Response		kHz	>1,000 -5%	
DC Offset (maximum)		mV	<30	
Noise Broadband (1 Hz-10 kHz)		µV [dB]	<7.58 [-102]	
Typical Spectral Noise:	at 1 Hz	µV/√Hz [dB]	1.25 [-118]	
	at 10 Hz	µV/√Hz [dB]	0.09 [-141]	
	at 100 Hz	µV/√Hz [dB]	0.07 [-144]	
	at 1 kHz	µV/√Hz [dB]	0.04 [-149]	
	at 10 kHz	µV/√Hz [dB]	0.03 [-150]	
Voltage Gain (all outputs)			1 ±1%	
Fault Monitor Meter		V/FS	24 ±1V	
Power Required (50-400 Hz)		VAC/A	115 ± 10%/0.12 (max)	[3]
PHYSICAL				
Connectors:	Inputs (sensor)	type	BNC Jack	
	Outputs	type	BNC Jack	
	AC (power) Input	type	IEC 320	
Size (H x W x D):		in	4.3 x 1.8 x 6.0	
		[cm]	[109,2 x 45,7 x 152,4]	
Weight		lb [gm]	2 [907,2]	

NOTES:

[1] Units supplied with current set at 4 mA (±0.5 mA). One user adjustment, controls all channels (internal).

[2] With ≥1MΩ input impedance of readout device.

[3] Unit set to 230 VAC when ordered as "F482A05."

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

SUPPLIED ACCESSORIES:

Model 017 AC Line Cord

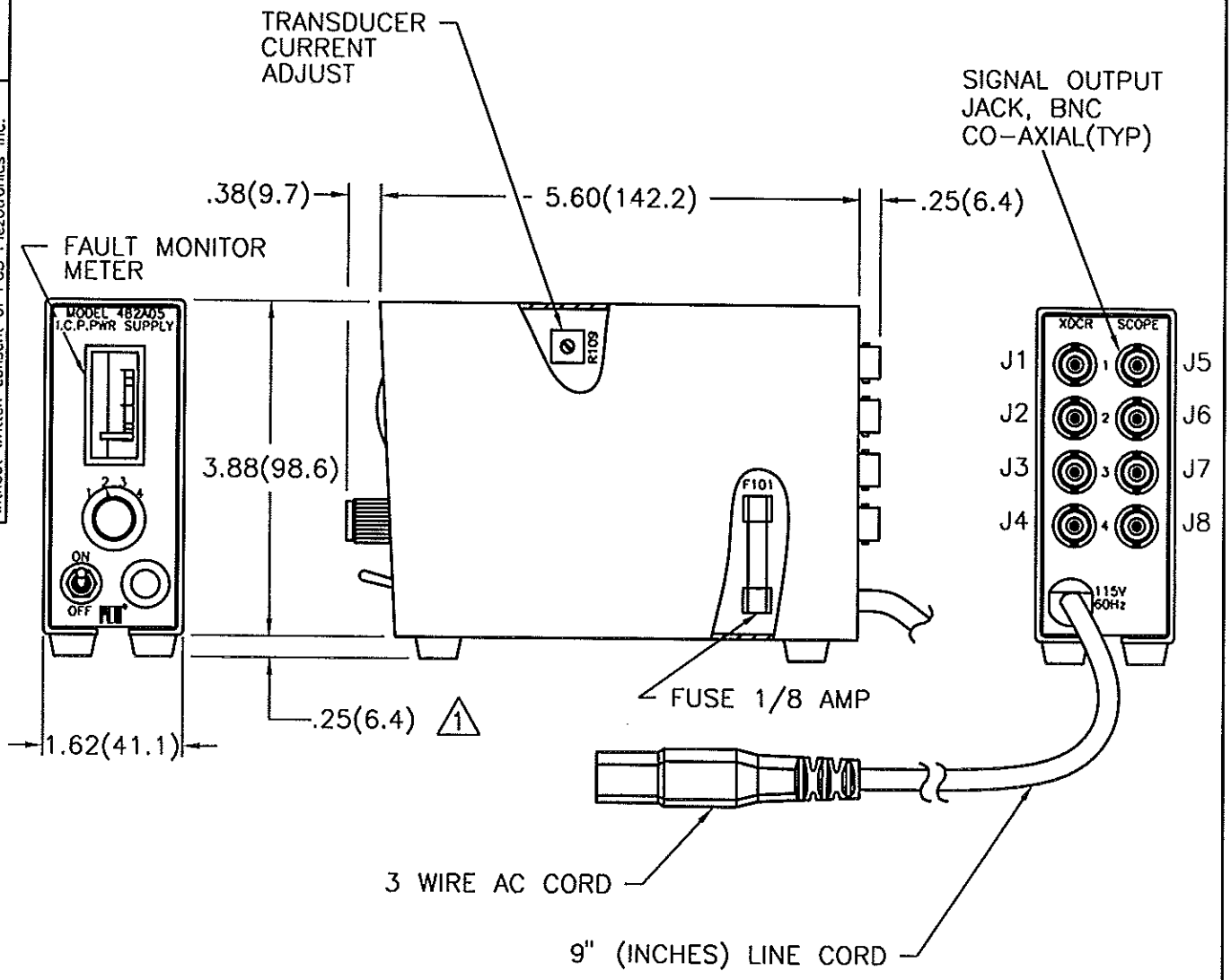
Drawn	SRH	9/22/97	Spec No. 482-1050-80
Engineer	PLH	9/22/97	
Sales	EJR	9/22/97	
Approved	RJV	9/22/97	Sheet 1 of 1

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DIMENSIONS IN INCHES DECIMALS XX ±.01 XXX ±.005 ANGLES ±2 DEGREES	DIMENSIONS IN MILLIMETERS (IN PARENTHESIS) DECIMALS XX ±0.3 XXX ±0.13 ANGLES ±2 DEGREES
FILLETS AND RADII .003 - .005	FILLETS AND RADII (0.07 - 0.13)
DD011 REV. A 05/26/95	

DRAWN	[illegible]	6/26/97	MFG	[illegible]	6/26/97
CHK'D	[illegible]	6/26/97	ENGR	[illegible]	6/26/97
APP'D					

TITLE: OUTLINE DRAWING MODEL 482A05 ICP POWER SUPPLY

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3425 WALDEN AVE. DEPEW, NEW YORK 14043
PHONE: (716) 684-0001

CODE IDENT. NO.	DWG. NO.
52681	6618

SCALE: .5X | SHEET 1 OF 1

Model Number 482A06	ICP® SENSOR LINE POWER UNIT	Revision: B ECN #: 8894

ELECTRICAL			
Supply Voltage	volt	+24/Channel (±1V)	
ICP® Sensor Excitation Current (Constant Current Source)	mA	2-20/Channel	[1]
Time Constant	sec	10 (-0, +50%)	[2]
Low Frequency Response	Hz	<0.1 -5%	
High Frequency Response	kHz	>1,000 -5%	
DC Offset (maximum)	mV	<30	
Noise Broadband, RMS (1 Hz-10 kHz)	µV [dB]	6.37 [-104]	[4]
Typical Spectral Noise: at 1 Hz	µV/√Hz [dB]	2.27 [-113]	[4]
at 10 Hz	µV/√Hz [dB]	0.09 [-142]	[4]
at 100 Hz	µV/√Hz [dB]	0.05 [-147]	[4]
at 1 kHz	µV/√Hz [dB]	0.04 [-149]	[4]
at 10 kHz	µV/√Hz [dB]	0.03 [-150]	[4]
Voltage Gain		1 ±1%	
Fault Monitor Meter	V/FS	24 ±1V	
Power Required (50-400 Hz)	VAC/A	115 ± 10%/0.12 (max)	[3]
PHYSICAL			
Connectors: Input (sensor)	type	BNC Jack	
Output	type	BNC Jack	
AC (power) Input	type	IEC 320	
Size (H x W x D):	in	4.3 x 1.8 x 6.0	
	[cm]	[109,2 x 45,7 x 152,4]	
Weight	lb [gm]	2 [907,2]	

NOTES:
[1] Units supplied with current set at 4 mA (±0.5 mA). User adjustment (internal).
[2] With ≥1MΩ input impedance of readout device.
[3] Unit set to 230 VAC when ordered as "F482A06."
[4] Typical.

SUPPLIED ACCESSORIES:
Model 017 AC Line Cord

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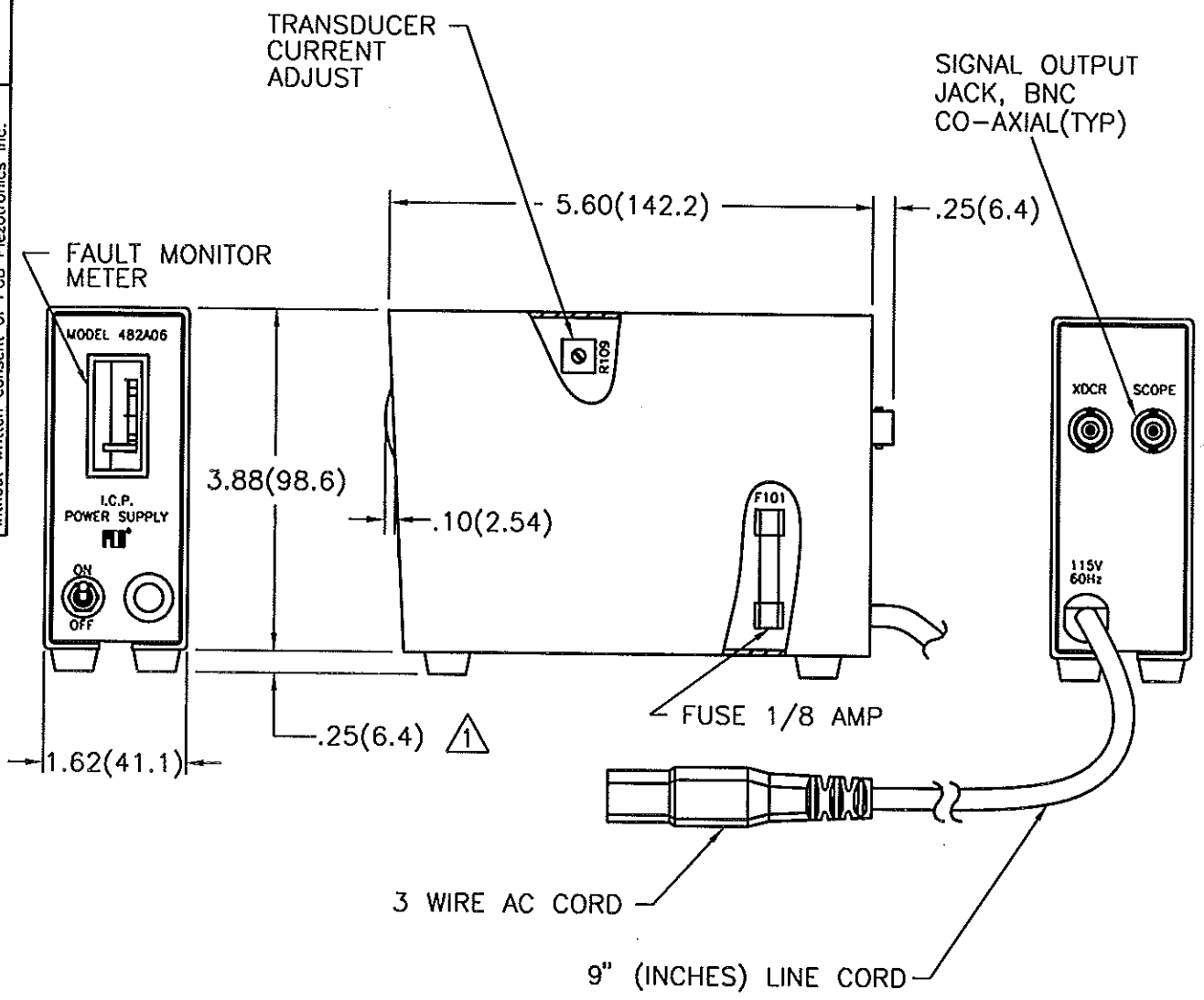
Drawn	[illegible]	MAR 98	Spec No. 482-1060-80
Engineer	[illegible]	3/24/98	
Sales	ESR	3/26/98	
Approved	KJS	3/26/98	Sheet 1 of 1

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UNLESS SPECIFIED TOLERANCES	
DIMENSIONS IN INCHES	DIMENSIONS IN MILLIMETERS (IN PARENTHESIS)
DECIMALS XX ±.01 XXX ±.005 ANGLES ±2 DEGREES	DECIMALS XX ±0.3 XXX ±0.13 ANGLES ±2 DEGREES
FILLETS AND RADII .003 - .005	FILLETS AND RADII (0.07 - 0.13)
DD011 REV. A 05/26/95	

DRAWN	[illegible]	6/26/97	MFG	RMS	6/26/97
CHK'D	Ken L	6/26/97	ENGR	CPH	6/26/97
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