| Model Number | FOUR CHANNEL, ICP® SENSOR SIGNAL CONDITIONER | Revision: F |
|---|---|---|
| 482C16 | | ECN #: 45020 |

| Performance | ENGLISH | SI | |
|---|---|---|---|
| Channels | 4 | 4 | |
| Sensor Input Type(s) | ICP®, Voltage | ICP®, Voltage | |
| Voltage Gain | x0.1 to x200 | x0.1 to x200 | |
| Accuracy(Gain, x0.1 to x0.4) | ± 5 % | ± 5 % | |
| Accuracy(Gain, x0.5 to x200) | ± 1 % | ± 1 % | |
| Output Range(Minimum) | ± 10 V | ± 10 V | |
| Frequency Range(-5 %)(x0.1 to x99.9 Gain) | 0.05 to 100,000 Hz | 0.05 to 100,000 Hz | |
| Frequency Range(-5 %)(x100 to x200 Gain) | 0.05 to 50,000 Hz | 0.05 to 50,000 Hz | |
| Phase Response(at 1 kHz) | ± 1 ° | ± 1 ° | |
| Cross Talk(maximum) | -72 dB | -72 dB | |
| Fault/Bias Monitor/Meter(LED) | Open/Short/Overload | Open/Short/Overload | |
| **Control Interface** | | | |
| Human Interface | Keypad | Keypad | |
| Display | 2 rows, 16 columns | 2 rows, 16 columns | |
| Digital Control Interface | RS-232 | RS-232 | |
| Digital Control: Data Rate | 19,200 bps | 19,200 bps | |
| Digital Control: Start, Data, Stop, Parity | 1, 8, 1, No | 1, 8, 1, No | |
| Digital Control: Handshaking | RTS/CTS | RTS/CTS | |
| Digital Control: Cable Length(Maximum) | 50 ft | 15.2 m | |
| **Environmental** | | | |
| Temperature Range(Operating) | +32 to +120 °F | 0 to +50 °C | |
| **Electrical** | | | |
| Power Required(for supplied AC power adaptor) | AC Power | AC Power | |
| Power Required(direct input to unit) | DC power | DC power | |
| AC Power(50 to 60 Hz) | 100 to 240 VAC | 100 to 240 VAC | |
| AC Power | ≤ 1.6 Amps | ≤ 1.6 Amps | |
| Excitation Voltage(To Sensor) | ≥ +24 VDC | ≥ +24 VDC | |
| DC Offset | ≤ 50 mV | ≤ 50 mV | |
| DC Power | +9 to +18 VDC | +9 to +18 VDC | |
| DC Power | ≤ 2.5 Amps | ≤ 2.5 Amps | |
| Constant Current Excitation(To Sensor) | 0 to 20 mA | 0 to 20 mA | [1] |
| Output Impedance | ≤ 50 Ohm | ≤ 50 Ohm | |
| Overload Threshold(± 0.2 Vpk) | +10 Vpk | +10 Vpk | |
| Broadband Electrical Noise(1 to 10,000 Hz)(Gain x1) | 50 µV rms | 50 µV rms | [2] |
| Spectral Noise(1 Hz)(Gain x1) | 8.0 µV/√Hz | 8.0 µV/√Hz | [2] |
| Spectral Noise(10 Hz)(Gain x1) | 1.5 µV/√Hz | 1.5 µV/√Hz | [2] |
| Spectral Noise(100 Hz)(Gain x1) | 1.0 µV/√Hz | 1.0 µV/√Hz | [2] |
| Spectral Noise(1 kHz)(Gain x1) | 1.0 µV/√Hz | 1.0 µV/√Hz | [2] |
| Spectral Noise(10 kHz)(Gain x1) | 1.0 µV/√Hz | 1.0 µV/√Hz | [2] |
| Broadband Electrical Noise(1 to 10,000 Hz)(Gain x10) | 75 µV rms | 75 µV rms | [2] |
| Spectral Noise(1 Hz)(Gain x10) | 20 µV/√Hz | 20 µV/√Hz | [2] |
| Spectral Noise(10 Hz)(Gain x10) | 1.5 µV/√Hz | 1.5 µV/√Hz | [2] |
| Spectral Noise(100 Hz)(Gain x10) | 1.0 µV/√Hz | 1.0 µV/√Hz | [2] |
| Spectral Noise(1 kHz)(Gain x10) | 1.0 µV/√Hz | 1.0 µV/√Hz | [2] |
| Spectral Noise(10 kHz)(Gain x10) | 1.0 µV/√Hz | 1.0 µV/√Hz | [2] |
| Broadband Electrical Noise(1 to 10,000 Hz)(Gain x100) | 350 µV rms | 350 µV rms | [2] |
| Spectral Noise(1 Hz)(Gain x100) | 100.0 µV/√Hz | 100.0 µV/√Hz | [2] |
| Spectral Noise(10 Hz)(Gain x100) | 10.0 µV/√Hz | 10.0 µV/√Hz | [2] |
| Spectral Noise(100 Hz)(Gain x100) | 8.0 µV/√Hz | 8.0 µV/√Hz | [2] |
| Spectral Noise(1 kHz)(Gain x100) | 6.0 µV/√Hz | 6.0 µV/√Hz | [2] |
| Spectral Noise(10 kHz)(Gain x100) | 6.0 µV/√Hz | 6.0 µV/√Hz | [2] |
| **Physical** | | | |
| Electrical Connector(ICP® Sensor Input) | BNC Jack | BNC Jack | |
| Electrical Connector(Output) | BNC Jack | BNC Jack | |
| Electrical Connector(DC Power Input) | 6-socket mini DIN (female) | 6-socket mini DIN (female) | |
| Electrical Connector(RS-232 Digital Control) | DB-9 Connector | DB-9 Connector | |
| Size (Height x Width x Depth) | 3.2 in x 8.0 in x 5.9 in | 8.1 cm x 20 cm x 15 cm | |
| Weight | 2.00 lb | 907 gm | |

CE[3]

*All specifications are at room temperature unless otherwise specified.*
*In the interest of constant product improvement, we reserve the right to change specifications without notice.*
ICP® is a registered trademark of PCB Group, Inc.

## OPTIONAL VERSIONS

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

**NOTES:**
[1]User adjustable, factory set at 4 mA (± 1.0 mA). One control adjusts all channels.
[2]Typical.
[3]See PCB Declaration of Conformance PS024 for details.

**SUPPLIED ACCESSORIES:**
Model 017AXX Power Cord (1)
Model 100-7103-50 (02711) Multi-conductor cable, 6-ft, 9-pin female to 9-pin male. (1)
Model 488B14/NC POWER CONVERTOR (1)
Model EE75 PCB MCSC Control Software. (1)

| Entered: LK | Engineer: CPH | Sales: ML | Approved: ECB | Spec Number: |
|---|---|---|---|---|
| Date: 1/20/2016 | Date: 1/20/2016 | Date: 1/20/2016 | Date: 1/20/2016 | 35062 |

PCB PIEZOTRONICS
3425 Walden Avenue, Depew, NY 14043
Phone: 716-684-0001
Fax: 716-684-0987
E-Mail: info@pcb.com