| Model Number | ICP® SENSOR SIGNAL CONDITIONER | Revision: G |
|---|---|---|
| **483C50** | | ECN #: 40833 |

| **Performance** | **ENGLISH** | **SI** | |
|---|---|---|---|
| Channels | 8 | 8 | |
| Sensor Input Type(s) | ICP®, Voltage | ICP®, Voltage | |
| Voltage Gain Increment | 0.1 | 0.1 | |
| Accuracy(Gain, x0.1 to x0.4) | ± 5 % | ± 5 % | |
| Accuracy(Gain, x0.5 to x200) | ± 1 % | ± 1 % | |
| Low Frequency Response(-5 %) | ≤ 0.05 Hz | ≤ 0.05 Hz | |
| High Frequency Response(-3 dB)(Gain from x0.1 to x99.9) | >100 kHz | >100 kHz | |
| High Frequency Response(-3 dB)(Gain from x100 to x200) | >80 kHz | >80 kHz | |
| Phase Response(at 1 kHz) | ± 2 ° | ± 2 ° | |
| Non-Linearity | 1 % | 1 % | |
| Cross Talk | <72 dB | <72 dB | |
| TEDS Sensor Support | Yes | Yes | |
| Fault/Bias Monitor/Meter(LED) | Open/Short/Overload | Open/Short/Overload | |
| **Control Interface** | | | |
| Digital Control Interface | Ethernet | Ethernet | |
| **Environmental** | | | |
| Temperature Range(Operating) | +32 to +120 °F | 0 to +50 °C | |
| **Electrical** | | | |
| Power Required(direct input to unit) | AC Power | AC Power | |
| AC Power(47 to 63 Hz) | 100 to 240 VAC | 100 to 240 VAC | |
| AC Power | ≤ 0.7 amps | ≤ 0.7 amps | |
| Excitation Voltage(To Sensor) | >24 VDC | >24 VDC | |
| DC Offset | <50 mV | <50 mV | |
| Constant Current Excitation(To Sensor)(Non-Isolated Mode) | 2 to 20 mA | 2 to 20 mA | [1] |
| Output Impedance | <50 Ohm | <50 Ohm | |
| Overload Threshold(± 0.5 Vpk) | ± 10 Vpk | ± 10 Vpk | |
| Broadband Electrical Noise(1 to 10,000 Hz)(Gain x1) | 50.0 µV/rms | 50.0 µV/rms | [2] |
| Spectral Noise(1 Hz) | 8.0 µV/√Hz | 8.0 µV/√Hz | [2] |
| Spectral Noise(10 Hz) | 1.5 µV/√Hz | 1.5 µV/√Hz | [2] |
| Spectral Noise(100 Hz) | 1.0 µV/√Hz | 1.0 µV/√Hz | [2] |
| Spectral Noise(1 kHz) | 1.0 µV/√Hz | 1.0 µV/√Hz | [2] |
| Spectral Noise(10 kHz) | 1.0 µV/√Hz | 1.0 µV/√Hz | [2] |
| Broadband Electrical Noise(1 to 10,000 kHz)(Gain x10) | 75.0 µV rms | 75.0 µV rms | [2] |
| Spectral Noise(1 Hz) | 20.0 µV/√Hz | 20.0 µV/√Hz | [2] |
| Spectral Noise(10 Hz) | 1.5 µV/√Hz | 1.5 µV/√Hz | [2] |
| Spectral Noise(100 Hz) | 1.0 µV/√Hz | 1.0 µV/√Hz | [2] |
| Spectral Noise(1 kHz) | 1.0 µV/√Hz | 1.0 µV/√Hz | [2] |
| Spectral Noise(10 kHz) | 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) | 100.0 µV/√Hz | 100.0 µV/√Hz | [2] |
| Spectral Noise(10 Hz) | 10.0 µV/√Hz | 10.0 µV/√Hz | [2] |
| Spectral Noise(100 Hz) | 8.0 µV/√Hz | 8.0 µV/√Hz | [2] |
| Spectral Noise(1 kHz) | 6.0 µV/√Hz | 6.0 µV/√Hz | [2] |
| Spectral Noise(10 kHz) | 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(Ethernet) | RJ45 | RJ45 | |
| Size (Height x Width x Depth)(nominal) | 1.75 in x 19 in x 13.7 in | 44.5 mm x 482.6 mm x 348 mm | |
| Weight | 7 lb | 3.18 Kg | |

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.*

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**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 (± 0.5 mA).
[2] Typical.
[3] See PCB Declaration of Conformance PS024 for details.

**SUPPLIED ACCESSORIES:**

Model 017AXX Power Cord (1)
Model EE75 PCB MCSC Control Software. (1)

| Entered: AP | Engineer: AJP | Sales: JJM | Approved: JWH | Spec Number: |
|---|---|---|---|---|
| Date: 3/21/2013 | Date: 3/21/2013 | Date: 3/21/2013 | Date: 3/21/2013 | **40475** |

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