

A.P.S. Cathodic Protection Systems



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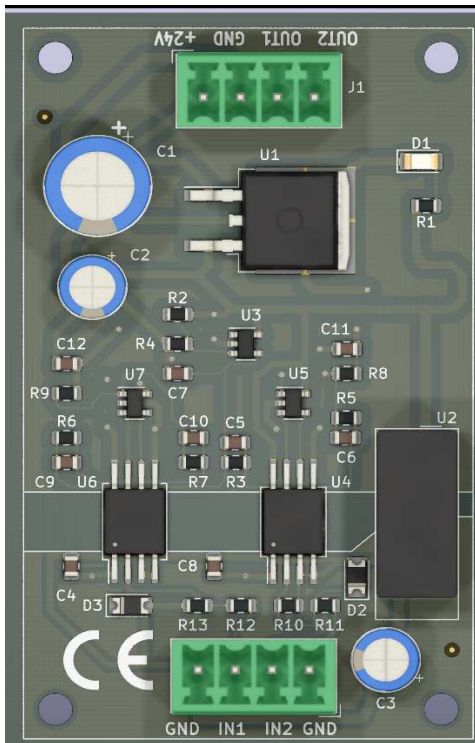
HI-AI2X High impedance Interface

This card has been designed and manufactured to interface analog inputs of devices that have a low impedance (PLC, electronic cards, etc), in systems where analog measurements with a high impedance value are required. A practical example is the measurement of potential and coupons in cathodic protection systems.. The device is Input Voltage Range Optimized for Isolated Voltage Measurement.

The Interface uses two AMC1311integrated. The Integrated is a precision isolated amplifier, with an output separated from the input circuitry by an isolation barrier that is highly resistant to magnetic interference.

This barrier is certified to provide reinforced galvanic isolation up to 7 kV_{PEAK} according to VDE V 0884-11 and UL1577. Used in conjunction with isolated power supplies TMA0505S, this isolated amplifier separates parts of the system that operate on different common-mode voltage levels and protects lower-voltage parts from damage. The high-impedance input of the AMC1311 is optimized for connection to high-voltage resistive dividers or other voltage signal sources with high output resistance.

The excellent performance of the device supports accurate, low temperature drift voltage or temperature sensing and control in closed loop systems.



CE MARKING

HI-AI2X Card Interface meets the requirements and protection levels of the following directives and complies with the harmonized European standards (EN) for the electronic cards published in the Official Directive of European Community

- 2014/30 / UE "Electromagnetic Compatibility" (EMC Directive)
- 2014/34 / UE "Protective equipment and systems intended for use in potentially explosive atmospheres" (Explosion protection directive)
- 2011/65 / UE "Restriction of the use of certain dangerous substances in electrical and electronic equipment" (RoHS directive)
- 2006/42 / CE "Machinery Directive" for the F ET 200SP modules

The EU declaration of conformity is available to the competent authorities at: A.P.S. Via S. Giacalone, 13/15 91100 Trapani (TP) Italy

HI-AI2X specifications

- Power supply: 8..30 VDC
- Absorption: <50 mA
- Channels: 2
- Max input voltage: 2V
- Input Impedance: 1 Gohm 7pF
- Output Impedance: 1 Kohm 100pF
- Max offset error and drift: ± 1.5 mV , ± 15 μ V/ $^{\circ}$ C
- Gain: 1
- Max gain error and drift: $\pm 0.3\%$, ± 45 ppm/ $^{\circ}$ C
- Non linearity and Drift: 0.01%, 1 ppm/ $^{\circ}$ C (typ)
- Isolation voltage: 1000 VDC 60s
- Precision class: 0.3
- Dimension and weight: 72x42.5mm 60 gr