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Mod. MCS

Programmable signal conditioning module

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Highlighted specs

- High precision AD converter (18 real bit) on differential input
- Latest electronic devices, optimized for low signals and programmable
- Very low power consumption
- DIN rail enclosure to be easily installed.
- Possibility to choose different input/output combinations with selectable ranges
- According to CE norms

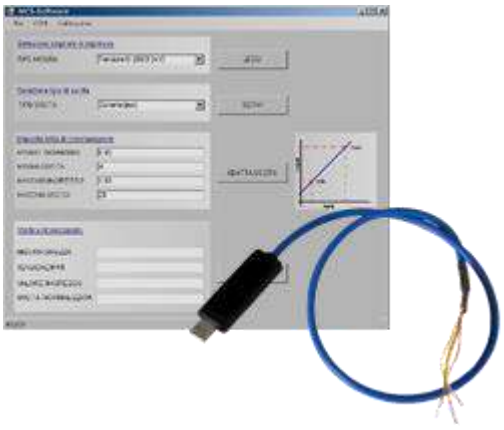
Single-channel module for conditioning digital and analogue electrical signals. MCS, accepts **Pt100 resistor signals, thermopile, voltage 0 ÷ 2Vdc (or micro voltages e.g. 0 ÷ 100mV), currents (mA) or digital signals (frequency or count)**, generating **in output a normalized voltage signal: 0 ÷ 2Vdc, current 0 ÷ 20mA, 4 ÷ 20mA, or digital type Modbus on RS485 line**.

Fully programmable for input/output association, range, offset and slope, thanks to the optional USB interface.

Programmable Input signals	Differential input with current generator for Pt100: • Pt100, Thermopile • Voltages up to 0÷2Vdc • Currents 0÷20mA or 4÷20mA • Frequency up to 1000Hz • Pulses (min. 1ms)
Resolution	18 bit more than 262.000 points
Accuracy	< 2µV full scale
Programmable signal output	• Voltages 0÷2Vdc • Currents 0÷20mA or 4÷20mA • Modbus on RS485
Programmability (USB interface optional)	Association of input / output type, range, with the possibility of associating different measurement' scale and zero and offset adjustment.
Working conditions	-40°C ÷ +80°C
Power supply and consumption	10÷30Vdc, (typ. 4mA@12Vdc)
Enclosure	2 Unit DIN rail enclosure

The MCS module, designed with the latest electronic technology, allows to transform electrical digital or analog signals into other "standardized signals" always digital or analog.

Thanks to a conversion system with very high resolution (18bit) and to a programmable processor and a very low power consumption, is the ideal interface to transform signals of different type generated from several instruments, sensors or transducers, in standard signals, suitable to be read and/or acquired by the most common devices on the market, such as data loggers, multimeters, computer or processing systems such as PLC and DCS.



Once defined the electrical input signal range and type (analog or digital), you can select a standard output and associate it a specific measurement range

Selecting the output as digital type, it is possible to have a real-time reading of the values of the input signal directly on RS485 line (not isolated).

With this device, it is also possible to create systems of counting "analog" that automatically reset them to zero if the counter exceeded the full scale value set.

The device comes pre-calibrated by high precision systems, and programmed at the request of the customer.

Optionally is provided a simple USB interface (USB-MCS-I) including software, that allows the direct association of input - output type, zero adjustment and offset.

More information available in the user manual

Order Code

Model	Programmable signal conditioning module	MCS
	USB interface for programming with sofware	IS485/USB

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