

APPLICATIONS

- Adaptation of any type of analog signal from sensors to make it compatible with an acquisition system or PLC.
- Measurement of electrical and environmental parameters (force, torque, displacement , acceleration , pressure ...) , on the test bench or in industrial process control.
- Suitable for installations where the offset and gain settings are fixed and can be preset at the factory to customer specification.

**DESCRIPTION**

The ME52C converts and amplifies signals originating from all types of electronic devices or sensor to deliver a standardized analog output ($\pm 10V$, 4-20mA, etc...)

The ME52C is a modular analog signal converter for installation on a DIN rail. It is chiefly designed for the adaptation of signals in order to deliver an analog output which can be used by an acquisition system or a programmable controller.

It can also be used as a voltage or current amplifier, an impedance adaptor or a galvanic isolator.

Delivered with factory-set input and output values, in accordance with the client's requirements, the ME52C is extremely simple to use, and requires no intervention by the operator.

OPTIONS

Galvanic insulation

Low pass filter

Mathematics operators

TECHNICAL FEATURES

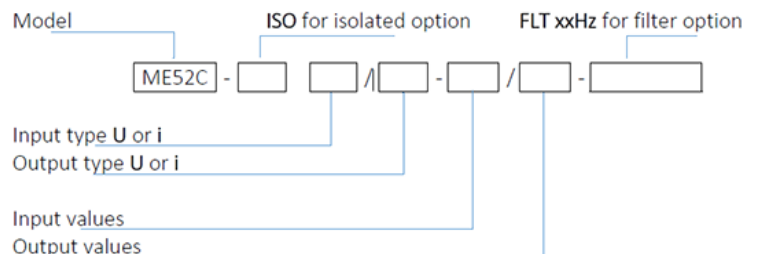
Housing sizes H*L*D	99*17.5*112mm
Base depth of DIN rail	114.5mm
Weight	110 grammes
Fixing in accordance with standard	EN50022 Rail-DIN
Connection – removable screw terminal block	3*3 terminals
Main power supply	18-36 VDC
Insulation of power supply	Between 0V and GND (60 sec maxi) : 1000 VDC / between 0V and GND: 400 VDC
Typical consumption	Excluding Output 45mA
Input	As requested
Output	As requested
Current Output	At output Voltage U
Voltage Output	Maximum dynamic variation: ± 10 V Short circuit current: ± 20 mA
Current Output	Maximum dynamic variation: ± 20 V / Reserve voltage margin on load : ± 10 mA
Input impedance	Between one input and Ground: 1.3 Mohm / Between the two inputs: 2.6 Mohm
Output impedance	0.2 ohm
Low pass filter	Typical cut-off frequency at -33db – 30kHz
Supply voltage rejection	Typical – 120 dB
Accuracy	Over full scale– 0.1%
Protection rating	IP20
Operating Temperature	-10 to +70 °C
Storage temperature	-20 to +85°C
Filter Option	Butterworth low pass filter : order6Th / Cut-off frequency: on demand from 10Hz to 20 kHz / Accuracy of cut-off frequency at -3dB: $\pm 10\%$

Reference setting

Examples :

- ME52C - U/U - ± 10 V / ± 10 V

- ME52C - I/U - ± 10 mA / ± 10 V - FLT 100Hz



Compatibility

Any type of analog sensor output and trade acquisition system or PLC.