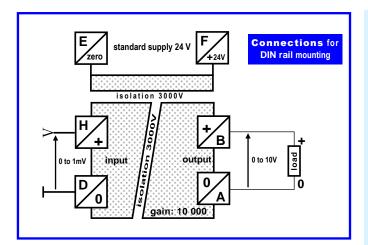
Analog converter, fast and precise, of gain 10 000, for very low level signals



Ø for terminals: 2.2 mm

| Converted and Signal Converted and Signal Response time: <0.2ms | Precision: 0.3% | Regulation: 0.05% | Load: ≥2kΩ | P/N:0-1mv/0-10 RD | PN: | Output | Out

SKU: 0-1mV / 0-10 RD

Case for WALL mounting: 70 (+11) x 50 x 22 mm SKU: 0-1mV / 0-10 P

Case for PRINTED CIRCUIT: 70 x 50 x 22 mm with pins SKU: 0-1mV / 0-10 CI This analog converter was initially intended for the monitoring, on very low resistance shunts (of a few $\mu\Omega$), of DC currents with rapid fluctuations.

This high performance mini-module transmits, at scale 10,000 and within 200 microseconds, "0 to 1mV" applied on its input.

When mounted as DC current transducer, inputs can be connected (with screw or clamp) directly on the lead portion that drops up to 1mV when supplied with current up to 250A.

Input 0 to 1mV; impedance:10 kΩ

Output 0 to 10V, on load $\geq 2 \text{ k}\Omega$

Accuracy better than 0.3%

Regulation <5.10⁻⁴, with load varying from 2 kΩ up to 100 kΩ

Ripple < 100 mV

Response time ≈ 200 µs (can be increased upon request)

Isolation Triple { entrée / sortie entrée / alim sortie / alim

Power supply voltage standard, 24V DC $\pm 10\%$ / < 40 mA / load 2 k Ω

Possible load ≥2 kΩ

Protections

- against inverted connections on input and power supply
- against accidental overvoltage on input: 1V
- against overloads and short-circuits
- isolations 3000V
- against vibrations, and tropicalisation: with moulding
- sealing iP67, except connections
- elimination of the faulty-contact risk (no DIL switch)
- negligible temperature rise (high performance conversion)

Standards CE; RoHS; EN 60905-1

Temperatures

- coefficient: < 2.10⁻⁴ / °C
- operation: -20°C to +60°C
- storage: -40°C to +90°C

Three modules

- DIN rail mounting (RD)
- wall mounting with external connector and 2 M3 screws (P)
- mounting on printed circuit, connecting pins ∅ 1mm (CI)

Optional: all-aluminum case

| Standard SKU | Dimensions of the cases (mm) - Weight (grams) | | | | |
|-----------------|--|---|---------------------------------|---|------------------|
| | Mounting on DIN rail (RD) Dimensions / Weight | Mounting on wall (P) Dimensions / Weight | Center distance between 2 M3 | Mounting on printed circuit (CI) Dimensions / Pins center distance / Weight | Pre-tax price |
| 0-1mV / 0-10 RD | 66 (+11) x 53 x 22.5 mm / 145g | | | | |
| 0-1mV / 0-10 P | | 70 (+11) x 50 x 22 mm / 155g | | | |
| 0-1mV / 0-10 CI | | | | 70 x 50 x 22 mm / 150g | |