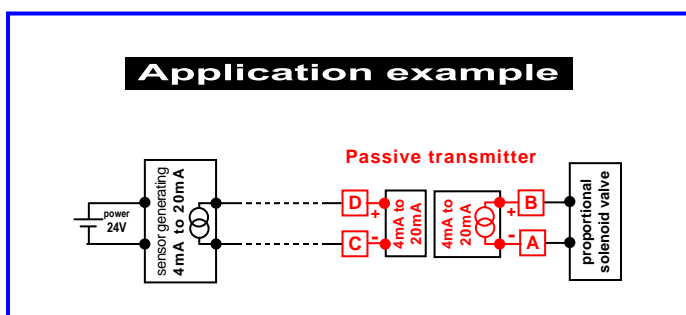
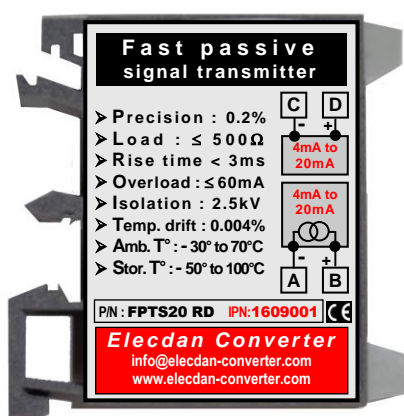
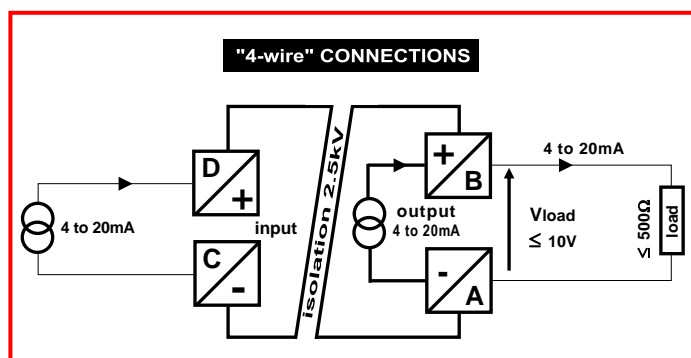


From 4 to 20mA: Isolation guaranteed - No power supply - Easier cabling - Higher reliability - Reduced volume & cost



In industrial settings, analog signals resulting from the measurement of physical data (temperature, weight, pressure, frequency, etc.) must be isolated from **interference voltages** and **unevenly referenced grounds**.

Our passive transmitter, galvanic isolator, isolated quadrupor, solves these problems. Very easy to use, this link for your control loop does not require any external power supply, nor any adjustment.

In order to ease the possible fine-tuning between sensor and actuator, this "4 to 20mA" transmitter can operate outside its normal range, from 2mA to 60mA, while maintaining its accuracy.

Input

- ◆ **Normal input current (i_{in}):** 4 to 20mA for a load $\leq 500\Omega$
- ◆ **Maximum input range:** 2 to 60mA for a load $\leq 150\Omega$
- ◆ **Maximum exploitable voltage of the current source:** 18V
- ◆ **Voltage drop-out:** $\leq 1.6V$ (at input 4mA) and $\leq 3.2V$ (at 20mA)
- ◆ **Voltage generated on the input:** $(R_{load} \times i_{in}) + V_{drop-out}$

Output

- ◆ **Isolation:** 2.5kV and $100M\Omega / 500V$
- ◆ **Current precision:** more than 0.2%
- ◆ **Current regulation:** more than 0.1%
- ◆ **Normal load:** $\leq 500\Omega$
- ◆ **Maximum load:** $\leq 720\Omega$
- ◆ **Ripple:** $\leq 65\mu A$
- ◆ **Switching frequency:** fixed, 60kHz
- ◆ **Rise time, from 4 to 20mA:** $\leq 3ms$

Temperature

- ◆ **Temperature drift:** $< 0.004\%$ per $^{\circ}C$
- ◆ **Operating:** $-30^{\circ}C$ to $+70^{\circ}C$
- ◆ **Storage:** $-50^{\circ}C$ to $+100^{\circ}C$

Protections

- ◆ **Inversion of the input current**
- ◆ **Overloads on the input**
- ◆ **Overloads and short circuits**
- ◆ **Isolation voltage:** 2.5kV (test 1 minute)
- ◆ **Vibrations et tropicalization:** sealing IP67
- ◆ **Extremely low temperature drift**

Presentations

- ◆ **Case:** 53 x 38 x 12,5 mm; for DIN rail; weight: $< 50g$
- ◆ **Connections :** 4 points, cross-section $4.5mm^2$ (screw locking)
- ◆ **Other presentations upon request**

Standards

- ◆ **Marking** CE / EN 60950-1 / RoHS
- ◆ **Flammability:** UL94HB, horizontal test for electric applications
- ◆ **MTBF:** 500,000 hours

SKU

Pre-tax price

FPTS20 RD (for DIN rail)