

Galvanic isolators

Applications :

PARATRONIC galvanic isolators are used on 4-20mA current loops. They enable sensors or analogue measurement acquisition systems to be isolated from one another.

Simple and effective :

The various models in the PARATRONIC range can be easily inserted into existing installations in order to solve problems with common points or interference signals. In the powered version, they enable lines with high impedances to be used and signals to be repeated on one, two or three different outputs supplying or not power to the measurement loops.

Reliable and sturdy :

The immunity of the electronics in PARATRONIC isolators protects them against polarity reversals and atmospheric or electromagnetic disturbances. They also come with a 2-year warranty including lightening risks.

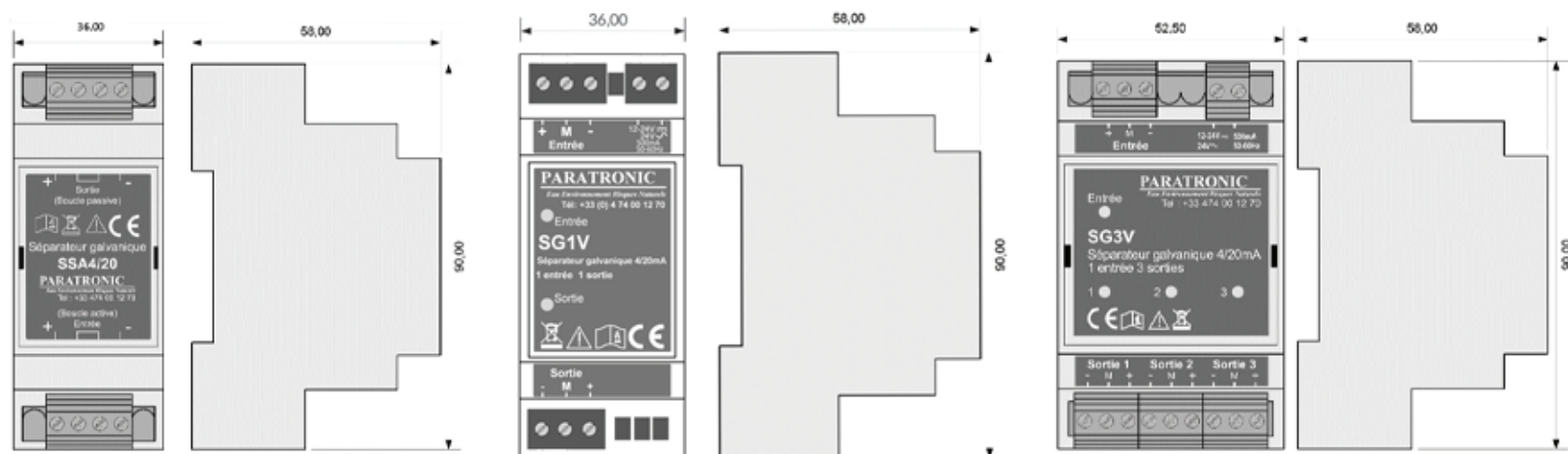
Available :

- Large stock of all models.
- Constant technical availability to meet your requirements.



C109A-0319	SSA 4/20	SG1V	SG2V	SG3V
Power supply	Self-powered from the measurement loop	12 to 24 V DC or 24 V AC	12 to 24 V DC or 24 V AC	12 to 24 V DC or 24 V AC
Power	Voltage drop over 4/20mA loop: 4V DC	<210mA @12 V DC, <100mA @24 V DC, <90mA @24 V AC	<330mA @12 V DC, <160mA @24 V DC, <250mA @24 V AC	<380mA @12 V DC, <175mA @24 V DC, <285mA @24 V AC
Measurement input 4/20mA	1 passive	1 active or passive	1 active or passive	1 active or passive
Measurement output	1 active	1 active or passive	2 active or passive	3 active or passive
Voltage delivered to input/output	Input voltage function	>25 V at 40 mA / >15 V at 20 mA	>25 V at 40 mA / >15 V at 20 mA	>25 V at 40 mA / >15 V at 20 mA
Transfer ratio & Accuracy	1/1 +/- 0.5%	1/1 +/- 0.1% (2)	1/1 +/- 0.1% (2)	1/1 +/- 0.1% (2)
Operating/storage temperature	-20°C to +50°C / -20°C to +60°C	-20 to 55°C / -20°C to +60°C	-20 to 55°C / -20°C to +60°C	-20 to 55°C / -20°C to +60°C
Insulation between input & output	2kV DC	1.5 kV 50 Hz 1 min	1.5 kV 50 Hz 1 min	1.5 kV 50 Hz 1 min
Lightening shock strength	Wave 8/20 1,2/50 - 2kV	Wave 8/20 1,2/50 - 2kV	Wave 8/20 1,2/50 - 2kV	Wave 8/20 1,2/50 - 2kV
Electromagnetic Compatibility	EN 61000-6-2, EN -61000 6-3, EN 60950-1, EN 62479, EN 50581	EN 61326-1, EN 60950-1, EN 62479, EN 50581	EN 61326-1, EN 60950-1, EN 62479, EN 50581	EN 61326-1, EN 60950-1, EN 62479, EN 50581
Protection rating	IP20	IP20	IP20	IP20
Installation	Rack-mounted on DIN rail	Rack-mounted on DIN rail	Rack-mounted on DIN rail	Rack-mounted on DIN rail
Material	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate
Enclosure dimensions	L=36 x H=90 x D=58 (2 modules of 17.5mm)	L=36 x H=90 x D=58 (2 modules of 17.5mm)	L=53 x H=90 x D=58 (3 modules of 17.5mm)	L=53 x H=90 x D=58 (3 modules of 17.5mm)
Weight(g)	133	100	135	140
Warranty	2 years including lightning risks (1)	2 years including lightning risks (1)	2 years including lightning risks (1)	2 years including lightning risks (1)

(1)Protection of 4/20mA loops with a PRO TAS30 and power supplies with a PRO TAS3016A are essential. (2) at 25°C



Galvanic separators