

## Signal Powered Isolator v3 SPI232

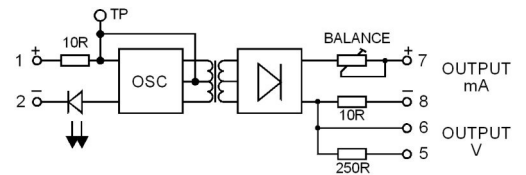
The SPI232 signal isolator provides galvanic isolation where common mode voltages or earth loop problems occur. The SPI232 is powered by the input signal, therefore it can only be offered in current input versions with a zero offset (4 - 20mA, 10 - 50mA). Typical output is 4-20mA but can be 1-5V by using different output terminals. A green L.E.D. on the module front gives a clear indication of input signal and will change its intensity in relation to input signal level. Load trim adjustment (full scale) is placed on the module front. Zero tracking is automatic and requires no adjustment. Facility for in-process monitoring is provided for input and output. INPUT: Terminal 1(+) to Test Socket (-) 20mA = 200mV. OUTPUT: Terminal 8(+) to Terminal 6 (-) 20mA = 200mV.



### General Specifications

Size:	23.5W x 71.5H x 109D (mm).
Mounting:	Clip for 35mm DIN-Rail.
Housing material:	ABS.
Connection:	Screw terminals.
Weight:	0.100 kg.
Protection class:	IP40 (IP65 Enclosure opt.)
Repeatability:	<0.2% SPAN.
Linearity:	<0.25% SPAN.
Temperature drift:	<0.02% per °C.
Response time:	0.2 sec for T <sub>90</sub> standard.
Input drive voltage:	9 - 9.5V for 20mA. (480Ω max).
Output load range:	0 - 250Ω.
Operating temp. range:	-10...+60°C.
Storage temp. range:	-20...+70°C.
Input/output isolation:	2kV rms. continuous.

### Block Diagram



Electromagnetic compatibility: Complies with AS/NZS 4251.1 (EN 50081.1)

### TYPE NO. SPI232 - X X 0 0

**Input:** \_\_\_\_\_

1 = 4 - 20mA.  
 \*) 2 = 10 - 50mA.  
 \*) 9 = Other (Specify).

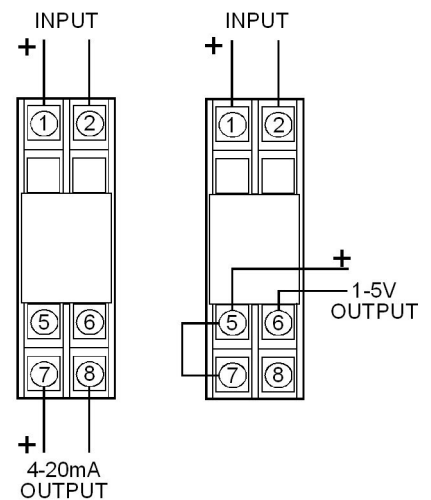
**Output:** \_\_\_\_\_

1 = 4 - 20mA / 1-5Vdc  
 \*) 2 = 10 - 50mA.  
 \*) 3 = 2 - 10V.  
 \*) 9 = Other (Specify).

\*) = Price Extra.

Note : combination SPI232-1200 is not available:

### Connection Diagrams

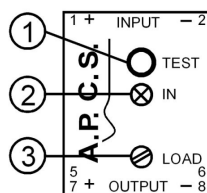


### Set-Up Procedure

1. Connect input terminals 1 and 2.
2. Connect load to output terminals 7 & 8 (5 & 6 for voltage)
3. With 20mA input (200mV term.1(+)) / Test Socket (-) [1] adjust "LOAD" for 200mV on term.8(+)) / term.6(-) for 20mA current output or 5.0V across terminals 5(+)) and 6(-) for voltage output (link 5/7).

### Front Control Explanation

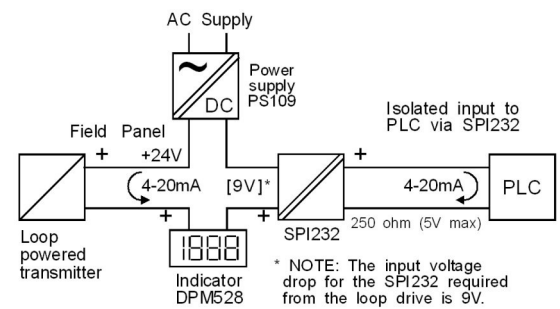
1. Test socket.
2. Input loop continuity indication.
3. Output load balance adjustment.



### In-Circuit Testing:

**Input:** terminal 1 (+) / test socket = 200mV @ 20mA.  
**Output:** terminal 6 (+) / terminal 8 = 200mV @ 20mA.

### Wiring Example



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