

16 resistance inputs to Modbus RTU (RS485), with line monitoring

Article number AV251228A1



The AV251228A1 measures the resistance of each input, from 0 Ω to 50 k Ω , and uses adjustable thresholds to determine the state of the connected circuit: open circuit, short circuit, button pressed, button released or a resistance outside the defined ranges. In addition, the exact resistance per channel can be read in ohms via Modbus RTU. This makes the module suitable both for status detection and for monitoring resistances.

Price on request. Lead time on request. Not in stock? We will make it.

Specifications

Supply	12 to 24 V DC ($\pm 15\%$)
Input	16 resistance inputs, 0 Ω to 50 k Ω
Output	Modbus RTU over RS485; per channel the resistance in ohms and the state (open circuit, short circuit, button pressed or released, undefined range)
Setup	Modbus address with two rotary switches (x10 and x1)
Baud rate	9,600 to 921,600 bps, 19,200 bps as delivered
Dimensions	90 x 80 x 40 mm with DIN rail enclosure
Mounting	DIN rail

Connections

Terminal 1	Supply plus (IN)
Terminal 2	Earth, E (IN)
Terminal 3	Supply minus (IN)
Terminal 4	RS485 A (IN)
Terminal 5	RS485 B (IN)
Terminal 6	RS485 0 V (IN)
Terminal 7 – 22	Inputs IN1 to IN8, a minus and a plus terminal per input (IN1: terminal 7 minus, terminal 8 plus)
Terminal 23	Supply plus (OUT)
Terminal 24	Earth, E (OUT)
Terminal 25	Supply minus (OUT)
Terminal 26	RS485 A (OUT)
Terminal 27	RS485 B (OUT)
Terminal 28	RS485 0 V (OUT)
Terminal 29 – 44	Inputs IN9 to IN16, a plus and a minus terminal per input (IN9: terminal 29 plus, terminal 30 minus)

More information, price and lead time: www.procircuits.nl/en/products/av251228a1

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