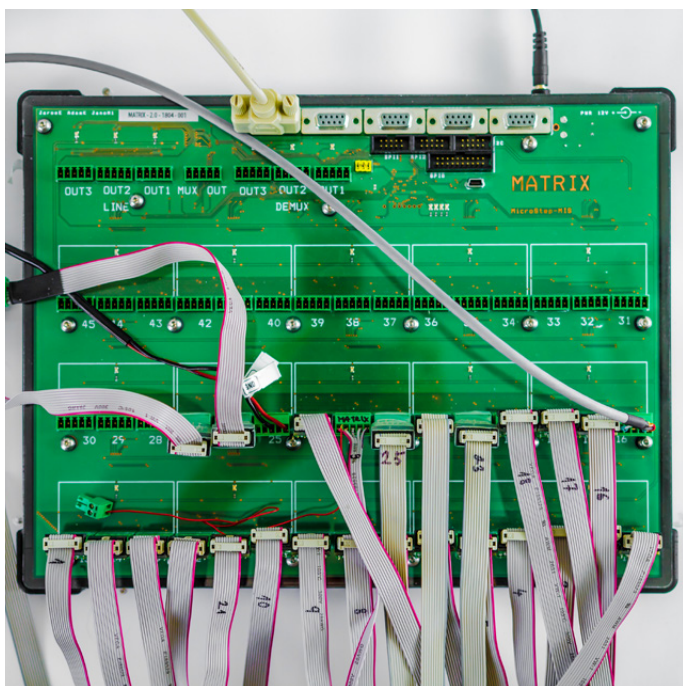



Matrix


Relay Channel Switch

Matrix is an array of signal relays capable of switching 45 four-wire channels or 15 twelve-wire channels. It is designed to calibrate multiple electronic sensors such as RTD thermometers, electronic barometers, hygrometers, anemometers etc.







Analog and digital signal switching



Virtually no leakage current



Multiplexer and demultiplexer



Up to 45 four wire channels

Thanks to signal relays the signal passing through Matrix is undisturbed, unmodified and it is suitable for both - analog and digital lines such as UART, SDI-12, RS-232, RS-485 etc.

Matrix is controlled by simple commands transmitted via RS-232 interface. It works well with MicroStep-MIS CalibLab software for calibration and adjustment automation.

Removable connectors, which can adopt pigtail wires up to 1.5 mm² (16 AWG) can be easily used for each channel.

Life cycle of relays reliably last up to 100 million cycles. Contact resistance is below 200 mOhm throughout the whole life.

Technical specifications

General specifications

Number of channels	45 (four-wire), 15 (twelve-wire)
Control	RS-232 commands
Baud rate	9600 Baud, 8 data bits, no parity, 1 stop bit

Mechanical specifications

Dimensions	320 x 250 x 50 mm
RS-232 connector	DB9 female
Power supply connector	IEC 60130-10 DC coaxial type A: 5.5 mm OD, 2.1 mm ID
Terminal blocks	5 x 1.5 mm ² (16 AWG)

Electrical specifications

Maximal switched voltage	20 V
Maximal switched current	20 mA
Contact resistance	less than 200 mOhm
Life (number of cycles)	more than 100 million
Power supply voltage	12 V nominal
Power supply current	max 1.1 A

