

VELOMAT

MESSELEKTRONIK GmbH



Digital measuring amplifier



Digital measuring amplifier

Series: VMV-0047.05



The module VMV-0047.05 is used to analyse connected sensors. Up to four sensors with measuring amplifiers (current output 4 ... 20 mA or 1 ... 9 mA) can be connected.

The module has a USB connection and a power supply connection for the safe supply of up to four sensors.

- Load resistance for sensors with current output can be switched via software
- Digital filtering of the results is possible
- Controller with internal EEPROM; configuration can be saved
- Measured values can be logged as .csv
- The firmware in the controller can be updated via USB

Technical Data

Power supply:	Plug-in power supply 15 V DC / 18 W 90 ... 264 V AC 47 ... 63 Hz
Sensor power supply:	From VMV-0047 approx. 14 V DC; Max. 50 mA, not short-circuit proof
Nominal temperature range:	0 ... +40 °C
Sensor input (4x):	$I_{in} = 4 \dots 20 \text{ mA}$
Load resistance:	$R_{Load} = 270 \Omega$; switchable to $R_{Load} = 120 \Omega$
Interface:	USB 2.0
Resolution ADC:	12 bit
Temperature drift:	approx. 125 ppm / °C
Housing:	Aluminium profile; black 106 x 32 x 100 mm

Sensor connection

Type: Subminiature connector M9
5-pin, Binder Series 712

Occupancy:

Pin 1	I_m	- Measuring signal
Pin 2	GND	- Mass
Pin 3	U_B	- Sensor operating voltage
Pin 4	CC	- Calibration check

