

Measuring-possibilities of the module AV32MF37

No:	Kind of the measurement.:	Max. of channels*)	Type of the sensor.	Required transducer	Power requirements:	Note:	Example-type of sensor
1	Temperature	1	PT500 (PT100)	no	USB	Two or three-wire configuration.	KT41
2	Temperature	4	PT500 (PT100)	Resistor	USB	Two-wire configuration, requires the precise resistor.	KT41
3	Temperature	8	PT500 (PT100)	AT52P	USB	Two-wire configuration.	KT41
4	Temperature	4	Thermocouple K,J	no	USB	Possibility of the compensation of cold junction with the sensor PT500.	„K”, „J”, itd.
5	Temperature	4	Thermistor NTC	Resistor	USB	Thermistor NTC, requires the precise resistor.	B57861
6	Displacement	8	Potentiometric	no	USB	Draw-wire, potentiometer. Accuracy from 0.01mm.	LS1-0075
7	Displacement	8	Inductive	yes	24V DC	With built-in transducer the output 0-5V, large accuracies 0.0001mm.	
8	Force	4	Tensometric	no	USB(2)/12V	To 2 the powered from USB above external 12V, any forces.	Type 615
9	Force	4	Semiconductor	no	USB	Small forces to 15N.	FSS1500NSB
10	Tensions	4	Tensometric	no	USB(2)/12V	To 2 the powered from USB above external 12V, any forces.	
11	Accelerations	4	Accelerometer	no	USB	Built-in anti-aliasing filter, from 0.5g to 300g.	MA24
12	Vibrations	4	Accelerometer	no	USB	Built-in anti-aliasing filter.	MA24
13	Inclinations	4	Inclinometer	no	USB	Range +/-15°, +/-30°.	MA27, MA28
14	Angle	8	Potentiometric	no	USB	Several kinds, range from 80° to 340°	5320-series
15	Humidity + temperature	4	Semiconductor	no	USB	Economic.	FRFHT
16	Humidity + temperature	4	Higroclip	no	USB	Precise, resistant on the condensation of water.	
17	Air flow / speed of the stream	8	Pitot tube	yes	USB	The required sensor of small pressures e.g. ASDXL05D44D	
18	Air flow	8	Thermoanemometer	no	24V/DC AC	Range 0-2m/s, 0-5m/s, 0-20m/s	AVT
19	Air flow / speed of the stream	8	Thermoanemometer	yes	12V/DC	Thermoanemometer	hot - wire
20	Air flow	8	Konfuzor	yes	USB	The required sensor of small pressures e.g. ASDXL05D44D	
21	Air flow	8	MEMS Flow Sensor	no	USB	Small flows, 0- 0.1l/min or 0-1l/min	D6F-P
22	Flow liquid / of water	8	Of rotor	RF-DUIP	12V DC	Any ranges	B111-110
23	Flow liquid / of water	8	RotorFlow	RF-DUIP	12V DC	The range includes from 2l/min to 225l/min	155421BSPP
24	Pressure	8	Semiconductor	no	USB	Any ranges	ASDXL05D44D
25	Rotations	8	Optic	RF-DUIP	12V DC		MA52
26	Voltage DC	8		Divider	USB		
27	Voltage AC	8		Divider	USB		
28	Power DC	8		Hall	USB		
29	Power one/three-phase	4/1		AV32PWR	230V	Reactive / effective power , cos fi, voltages, currents.	
30	Current DC	8		Shunt	USB	Shunt or halla transducer.	
31	Current AC	8		Shunt	USB	Shunt or current transforme.	
32	Solar radiation	4	Pyranometr	no	Not required		CMP 3
33	Solar radiation	4	Semiconductor	no	Not required		SP-LITE -2
34	Pomiar gęstość strumienia ciepła	4	Thermomultiplier	no	Not required		FQA018C
35	Current input	8	4-20mA / 0-20mA	Shunt	USB	The programmatic calibration of the any sensor	

*) All channels always 8. At the mixing of measurement is obligatory the rule: channels amplify to 4, filters to 4