

**Multichannel measuring interface
AV32MF37**

AV32MF37

General informations:

Systems of series **AV32MF37** are designed to measure various physical quantities without connecting external modules, for example: voltage, current, forward, force, pressure, flow, temperature, humidity. The modular design allows the construction of simple and advanced measuring sets. The module has 8 inputs, comes in several varieties depending on the inputs conditioning systems. Its design allows flexible switching on and off of measuring inputs. The module can operate in a dynamic and static measurements. It has a built-in amplifiers, filters and precision power supply of strain gauge sensors. We also offer snap-in connection directly to the input jacks. Aside from system we attach program APEK Assist to configuration, presentation and data archiving.



Front panel:

- Connector: supply and measurements synchronisation.
- Diode, signaling operating mode.
- Slot micro USB 2.0 type "C".



Analog inputs slot:

Sign:	Description
AV32MF37F2[U6]	2 inputs with filters, 6 inputs 0-5V
AV32MF37A4[U4]	4 enhanced input, 4 inputs 0-5V
AV32MF37A2F2[U4]	4 filters, 2*enhanced, 4 inputs 0-5V
AV32MF37[U8]	8 voltage inputs 0-5V
AV32MF37I4[U4]	4 current inputs, 4 inputs 0-5V

[] - optionally sign.

Pin:	Description:	Pin:	Description:	Pin:	Description:
1	W4 + analog input	15	W1 analog input	28	GNDA
2	Vref sensor's supply	16	W5+ analog input	29	GNDA
5	W2 + analog input	17	W4+ analog input	31	GNDA
6	Vref sensor's supply	18	W3+ analog input	32	W8- analog input
8	Vref sensor's supply	19	W2+ analog input	33	W6- analog input
9	Vref sensor's supply	20	W5 + analog input	34	W5- analog input
10	Vref sensor's supply	21	GNDA	35	W4- analog input
12	Vref sensor's supply	24	W3 + analog input	36	W3- analog input
13	supply GND	25	GNDA	37	W2- analog input
14	W7 analog input	27	GNDA		

Technical parameters:

- Number of analog inputs: max 8
- Filters: max 4, (Elliptic, Butterworth, Bessel)
- Available filter row: from 4 to 8 poles.
- Filter frequency: 1Hz - 10kHz. Programming.
- Amplifiers: max 4, differential inputs.
- Input impedance: 10Gom.
- Common mode rejection: 90dB
- Drift supply: +/- from 1uV/°C to 5uV/°C
- Input common mode range: +/- 10V
- Range of inputs: from 10mV to 10V
- 16 bits converter.
- Communication: USB 2.0 (UART optionally)
- Supply from USB port 5V
- Supply current: <90mA (without sensors).
- Sample rate: from 1Hz to 10kHz.
- Galvanic isolation inputs of digital circuit.
- Slot of analog inputs: CANON 37PIN
- Possibility measurements synchronisation from couple of measuring systems of series AV32Mxxx .
- Dimension 135x72x19mm
- Weight 0.16kg



Snap-in connection:

- 20 screw terminals with PCB board and CANON 37PIN connector.

Application:

- measurements building construction;
- measurements of machines;
- recorder to testing and tensile testing machine;
- measurements in aircraft and automotive industry;
- measuring system to drivers and regulators;
- scientific research;
- registry and canvassing of measurements.