APEK

Multichannel measuring interface
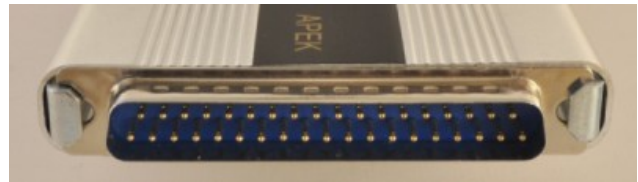# AV32DA37U32, AV32DA37U16, AV32DA37U08

AV32DA37U32/16/08

General informations:

Systems of series **AV32D** are used to build multichannel measuring systems. Modular construction accessible to build simple and advanced measuring systems. Module AV32DA37U32 is 32-inputs voltage measuring instrument. Construction of interface make possible to elastic on and off measurement inputs. Module can working in fast mode (consistent measurements – for frequency above 1Hz) or slow mode (question/answer – for frequency below 1Hz). The instrument can cooperate with filters and converters modules type **AV32Axxx** to do signal conditioning and also with **AV32Dxxx** module to do more measurement inputs. Accessible version with 16 and 8 channels (AV32DA37U16, AV32DA37U08) Aside from system we attach program APEK Assist to configuration, presentation and data archiving.

Front panel:
- Memory card Micro SD slot.
- Connector: supply and measurements synchronisation.
- Diode, signalizing operating mode.
- Slot micro USB 2.0 type "C".

Analog inputs slot:
- Type CANON 37PIN
- 32 pins analog inputs from 1 to 32.
- 2 pins GNDA
- 1 pin Uref 5V/2.5V
- 1 pin GND, supply GND
- 1 pin , Uz, supply

Technical parameters:
- 32 analog inputs for AV32DA37U32
- 16 analog inputs for AV32DA37U16
- 8 analog inputs for AV32DA37U08
- input's power: 0-2.5V, 0-5V, +/-2.5V
- 16 bits converter.
- communication: USB 2.0.
- supply from USB port or connector: 5-12V
- supply current 80mA
- sample rate:
  from 1sec to 10kHz.
- max sample rate depended on number of channels on:
  • 10kHz for 1 channel,
  • 5kHz for 4 channels,
  • 1kHz for 8 channels,
  • 500Hz for 16 channels.
- possibility slow mode working (question answer for frequency below 1Hz).
- galvanic isolation inputs of digital circuit;
- slot of analog inputs: CANON 37PIN
- possibility measurements synchronisation from couple of measuring systems of type AV32Dxxx
- cooperation with another systems of series AV32A
- Dimension 127x76x13mm
- Weight 0.12kg

Application:
Multichannel measuring: dislocation, force, flow, acceleration, position, vibration, pressure, temperature, humidity etc.
Building portable and stationary measuring system.
Area of application:
- dynamic measurements building construction;
- recorder to testing and tensile testing machine;
- measurements in aircraft and automotive industry;
- dynamic measurements of machines;
- measuring system to drivers and regulators;
- scientific research;
- registry and canvassing of measurements.