

Multi-channel thermocouple thermometer

AK128TC120

**The general information:**

AK128TC120 system is a multi-channel thermometer allows measurement up to 120 thermocouple temperature sensors i.e. K, J, T, C, etc . To the thermometer we produce panels with thermocouple connectors or complete measuring cabinet . The modular design of the device allows you to attach a set of measurements of other quantities ie: the temperature PT100, PT1000, displacement sensors, vibration, pressure, force etc. The communication interface uses Ethernet and / or RS422 . The system works with APEK PrezenterAssist and APEK MonkeyPrezenter software. The software includes programming, archiving and presentations measurements. The software additionally enables combine of several different systems with different types of the transmission and the cooperation with external systems SCADA. The AK128 with the software can perform sophisticated analysis measurements or work as a simple multi-channel thermometers.



The 120 channels of thermocouple

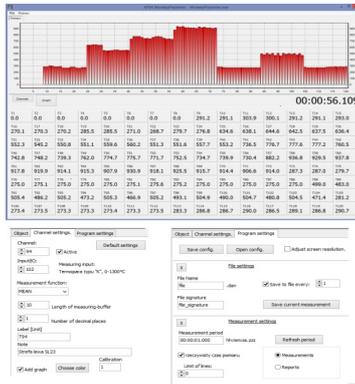
**Technical parameters:**

- temperature inputs: from 16 to 256.
- available quantities of measuring-places: 9/18/36
- sampling time max: 2ms\*the\_quantity\_of\_channels
- delay between channels: 0.1ms
- galvanic isolation to analog enter from the digital .
- power input: - 5V of ports mini USB / micro USB 3.
  - port Ethernet PoE.
- supply current: depends on number of cards.
  - e.g. 120 thermocouple (2W) for 5V: 400mA.
- dimensions LxHxD:
  - 9 cards - 135x139x124mm,
  - 18 cards - 411x139x124mm,
  - 36 cards - 411x262x124mm.
- measuring-bus connection: 40 PIN.
- material of housing: stainless steel.
- operating temperature from -20 do +65°C.
- transducer: 16 bit.
- communication interface: ethernet, RS422.
- port USB: upgrade programming.

**Parameters AK128 with the software MonkeyPrezenter**

- resolution of measurement: 1/0.1/0.01°C (set by user).
- error of input-characteristics:
  - for range -40°C + 600°C <0.2°C.
  - for range above 600°C <0.5°C.
- averaging of measurement: yes, (set by user).
- analysis of events: yes.

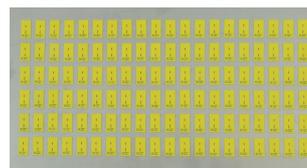
The system AK128 cooperates with software to configuration, calibration, presentation and archiving of measurement.



The module of presentation, measurement of programme MonkeyPrezenter.

The module to programming of measurements in MonkeyPrezenter.

To systems AK128 we produce connector panels.



The panel with thermocouple sockets mini K.