

**Multichannel measuring interface  
AL154S5T16L1**

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**General informations:**

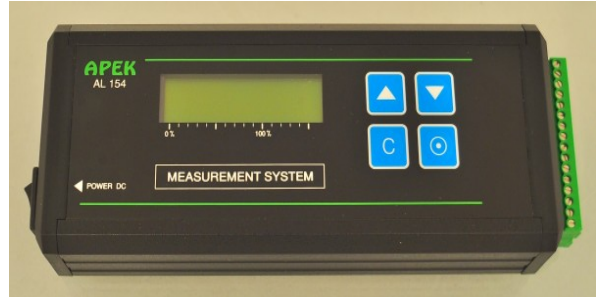
Precise system measuring temperature using resistive temperature detectors. System has 16 inputs to temperature sensors, type PT and also one counter input. System has several kind of power supply, own display and internal memory. This instrument we can use like portable measuring system and also to build some large test set.

**Application:**

AL154S5T16L1 has application in measurements: technical parameters of building materials, parameters of ventilators, air conditioning systems, gas and liquid flows.

**Casing:**

- Display LCD 4x20marks with LED backlit.
- Membrane keyboard.



Aluminum body, with sides made from ABS, high quality membrane keyboard and window on backlit display.

Two types of communication inputs:

- Supply input: 6-12V slot 5.5/2.1
- Supply on-switch.



RS232 or RS422 port.



USB port.

- |                   |               |
|-------------------|---------------|
| 1 – input GND     | 17- T1 input  |
| 2 – T9 input      | 18- input GND |
| 3 – T10 input     | 19- T2 input  |
| 4 – input GND     | 20- input GND |
| 5 – T11 input     | 21- T3 input  |
| 6 – T12 input     | 22- input GND |
| 7 – input GND     | 23- T4 input  |
| 8 – T13 input     | 24- input GND |
| 9 – T14 input     | 25- T5 input  |
| 10- input GND     | 26- input GND |
| 11- T15 input     | 27- T6 input  |
| 12- T16 input     | 28- input GND |
| 13- input GND     | 29- T7 input  |
| 14- counter GND   | 30- input GND |
| 15- (+Uz) option  | 31- T8 input  |
| 16- counter input | 32- input GND |



Dissociable screw fastening  
HARTMAN 2x 16PIN

**Technical parameters:**

- 20 temperature inputs:
  - from -40°C to 120°C/ from -40°C to 600°C
  - Two-wire PT100 / **PT500** / PT1000
- Sensors supply current: 3mA/0.6mA/0.3mA
- Instantaneous power of sensors.
- Counter input: 0-5V, adaptation to sensors with output OC (NPN) or connect to GND.
  - Max frequency <15kHz.
- Memory of measurement: **0.5MB** / 1.5MB / 3MB.
- Power supply 6-12V/300mA or USB port.
- Supply current 50mA.
- Display LCD 4x20 marks.
- Accumulator 3.6V 1800mAh, optionally.
- Version with accumulator 30h.
- Communication: USB / RS232 / RS422.
- Sample rate: from 1sec to 8h.
- Galvanic isolation of communication circuit.
- Dimension: LxSxG 200x80x40.

**Method of sign and reserve:**

**AL154S5T16L1.X.A.Y.XY.Z**

X- communication: 1- for USB,  
2- for RS232, 4- for RS422.

A- range of measurement: L from -40 to120°C, H from -40 to 600°C

Y- supply: A- built-in accumulator,

B- power supply with USB port and with accumulator, M- without accumulator, S- without accumulator, only with USB port.

XY- memory of measurement: NM – without memory,

M0- 0.5MB, M1- 1MB, M2- 1.5MB, M3- 3MB.

Z- kind of temperature sensor: PT100, PT500,

Example:

AL154S5T16L1.1.L.B.M0.PT500

Producer stipulate possibilities to make change, which cannot be included in this document.