

**Multichannel measuring interface  
AL154S5TU8U8**

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**General informations:**

Precise general purpose measuring instrument. 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.

System has 8 universal inputs to temperature measure using resistive temperature detectors. Voltage 0-0.5V, current 4-20mA ( it required to connect with resistor R=25Ω).

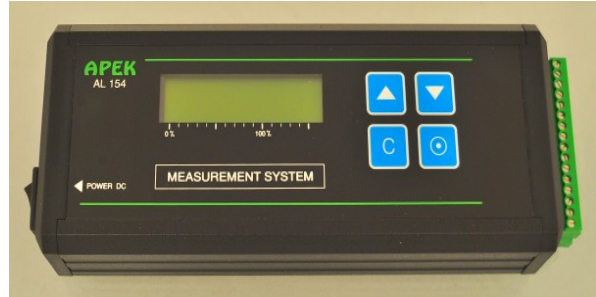
8 differential voltage inputs +/-100mV.

**Application:**

AL154S5TU8U8 has application in measurement: technical parameters of building materials, parameters of ventilators, air conditioning systems, heating flows, 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.

- |                |                 |
|----------------|-----------------|
| 1 - -U9 input  | 17- T1/U1 input |
| 2 - +U9 input  | 18- input GND   |
| 3 - -U10 input | 19- T2/U2 input |
| 4 - +U10 input | 20- input GND   |
| 5 - -U11 input | 21- T3/U3 input |
| 6 - +U11 input | 22- input GND   |
| 7 - -U12 input | 23- T4/U4 input |
| 8 - +U12 input | 24- input GND   |
| 9 - -U13 input | 25- T5/U5 input |
| 10- +U13 input | 26- input GND   |
| 11- -U14 input | 27- T6/U6 input |
| 12- +U14 input | 28- input GND   |
| 13- -U15 input | 29- T7/U7 input |
| 14- +U15 input | 30- input GND   |
| 15- -U16 input | 31- T8/U8 input |
| 16- +U16 input | 32- input GND   |



Dissociable screw fastening  
HARTMAN 2x 16PIN

Two types communication inputs:

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



RS232 or RS422 port.



USB port

**Technical parameters:**

- 8 temperature/voltage inputs: voltage 0-100mV.  
Temp. from -40°C to 120°C/ from -40°C to 600°C  
Two-wire PT100 / **PT500** / PT1000
- Sensors supply current: 1.5mA/0.3mA/0.15mA
- Instantaneous power of sensors.
- 8 voltage inputs +/- 100mV, Rwej. 10MΩ.
- Memory of measurement: **0.5MB** /1.5MB / 3MB.
- Power supply 6-12V/300mA or with 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::**

**AL154S5TU8U8.X.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 mem.,  
M0- 0.5MB, M1- 1MB, M2- 1.5MB, M3- 3MB.

Z- kind of temperature sensors: PT100, PT500, PT1000

Example:

AL154S5TU8U8.1.B.M0.PT500

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