Measuring instrument ALMEMO® 2450-1L



Compact ALMEMO® measuring instrument 1 measuring input, over 35 measuring ranges. Runs in battery mode

Technical data and functions

- Generously dimensioned 2-row segment display including units
- Easy and convenient to operate by means of 7 keys.
- Over 35 measuring ranges for
  - Thermocouple and NTC sensors
    For the customer's own sensors ready-to-use ALMEMO® connectors are available (see chapter 07).
  - Atmospheric humidity sensor, capacitive, dewpoint sensor, water detection probe, moisture in wood FHA636MF (see chapter 08)
  - Pressure transducer FDA602L/D, FDAD12P, Tachometer, turbine flowmeter (see chapter 10)
    Current clamps FEA604, Voltage / current measuring modules ZA990xAB (see chapter 11)
  - Meteorological radiation probe heads FLA613 (see chapter 12)
  - Carbon dioxide sensor FYAD00CO2, Carbon monoxide probe and ozone probe (see chapter 15),
- ALMEMO® plugs with multi-point adjustment are supported.
- Measuring functions
  Measured value, zero-setting, saving of maximum / minimum values, hold function
- Test functions
  Segment monitoring, range monitoring, sensor breakage indication, battery voltage check and display.

Technical data

Measuring input	1 ALMEMO® socket
Precision class	C (see general technical specifications)
Measuring rate	2.5 mops
Measuring ranges	(see general technical specifications / measuring ranges) NiCr-Ni(K), NiCrSi-NiSi(N),Fe-CuNi(L), Cu-CuNi(U), Cu-CuNi(T), PtRh10-Pt(S),
Fe-CuNi(J)	-200 to +950 °C
NTC	-20 to +100 °C
Voltage	-26 to +26 mV, -260 to +260 mV, 0 to 2.6 V
Current	0 to 26 mA, 4 to 20 mA Double connectors with 2 x differential voltage / differential current (input D - B) are not possible.
Humidity, capacitive	0 to 100 % RH, (% RH, HcRH, HRH)
Dew point, mixture ratio, partial vapor pressure, enthalpy, rotating vanes, digital process (0 / 100 %), frequency, pulse, rotational speed, digital	

Resolution	(see general technical specifications / measuring ranges)
Linearization accuracy	(see general technical specifications / measuring ranges)
Sensor power supply	9 V, maximum 0.5 A
Standard equipment	
LCD 7 segments	Measured value 5 characters, 15 mm Function 4½ characters, 9 mm
16 segments	Units 2 characters, 9 mm 9 symbols
Keypad	7 silicone keys
Power supply	
Battery set	3 AA alkaline batteries
Current consumption	approx. 10 mA without input modules
Housing ABS (max. 70 °C)	127 x 83 x 42 mm (LxWxH)
Environmental conditions	see general technical data

Accessories

	Order no.
Rubberized impact protection, gray	**ZB2490GS2**
DIN rail mounting	**ZB2490HS**
Magnetic fastening	**ZB2490MH**
Instrument case	**ZB2490TK2**

Standard delivery

	Order no.
Batteries, operating instructions, manufacturer's test certificate	
Compact measuring instrument ALMEMO® 2450-1L	**MA24501L**

DAkkS accredited calibration or works calibration KE90xx, electrical, for measuring instrument, see chapter „Calibration certificates".
DAkkS accredited calibration meets all the requirements regarding test resources laid down in DIN EN ISO/IEC 17025.

03/2026 • We reserve the right to make technical changes.