

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	Resolution	(see general technical specifications / measuring ranges)
Precision class	C (see general technical specifications)	Linearization accuracy	(see general technical specifications / measuring ranges)
Measuring rate	2.5 mops	Sensor power supply	9 V, maximum 0.5 A
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)	Standard equipment	
NTC	-200 to +950 °C	LCD 7 segments	Measured value 5 characters, 15 mm Function 4½ characters, 9 mm
Voltage	-20 to +100 °C	16 segments	Units 2 characters, 9 mm 9 symbols
Current	-26 to +26 mV, -260 to +260 mV, 0 to 2.6 V	Keypad	7 silicone keys
Humidity, capacitive	0 to 26 mA, 4 to 20 mA	Power supply	
Dew point, mixture ratio, partial vapor pressure, enthalpy, rotating vanes, digital process (0 / 100 %), frequency, pulse, rotational speed, digital	Double connectors with 2 x differential voltage / differential current (input D - B) are not possible.	Battery set	3 AA alkaline batteries
	0 to 100 % RH, (% RH, HcRH, HRH)	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

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

Standard delivery

Batteries, operating instructions, manufacturer's test certificate	Order no.
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.