

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, FD8612, 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 page 17/18)
Precision class	C (see page 16)	Linearization accuracy	(see page 17/18)
Measuring rate	2.5 mops	Sensor power supply	9 V, maximum 0.5 A
Measuring ranges	(see page 17/18) NiCr-Ni(K), NiCroSil-NiSil(N), Fe-CuNi(L), Cu-CuNi(U), Cu-CuNi(T), PtRh10-Pt(S), Fe-CuNi(J)	Standard equipment	Measured value 5 characters, 15 mm
NTC	-20 to +950 °C	LCD 7 segments	Function 4½ characters, 9 mm
Voltage	-26 to +26 mV, -260 to +260 mV, 0 to 2.6 V	16 segments	Units 2 characters, 9 mm
Current	0 to 26 mA, 4 to 20 mA	Keypad	9 symbols
Humidity, capacitive	Double connectors with 2 x differential voltage / differential current (input D - B) are not possible.	Power supply	7 silicone keys
Dew point, mixture ratio, partial vapor pressure, enthalpy, rotating vanes, digital process (0 / 100 %), frequency, pulse, rotational speed, digital	0 to 100 % RH, (% RH, HcRH, HRH)	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 and general technical data	see page 16 onwards

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