

ALMEMO® Measuring Instruments

ALMEMO® 2450-1L



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

11/2019 • We reserve the right to make technical changes.

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, FD8214, 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 01.08 / 01.09)
Precision class	C (see page 01.06)	Linearization accuracy	(see page 01.08 / 01.09)
Measuring rate	2.5 mops	Sensor power supply	9 V, maximum 0.5 A
Measuring ranges (see 01.05 / 01.06)	NiCr-Ni(K), NiCroSil-NiSil(N), Fe-CuNi(L), Cu-CuNi(U), Cu-CuNi(T), PtRh10-Pt(S), Fe-CuNi(J), NTC Voltage Current	Standard equipment	
	-200 to +950 °C -20 to +100 °C -26 to +26 mV, -260 to +260mV, 0 to 2.6V 0 to 26 mA, 4 to 20 mA	LCD 7 segments	Measured value 5 characters, 15 mm Function 4½ characters, 9 mm
	Double connectors with 2 x differential al voltage / differential current (input D - B) are not possible.	16 segments	Units 2 characters, 9 mm 9 symbols
Humidity, capacitive	0 to 100 % RH, (% RH, HcRH, HRH)	Keypad	7 silicone keys
Dew point, mixture ratio, partial vapor pressure, enthalpy, rotating vanes, digital process (0 / 100 %), frequency, pulse, rotational speed, digital		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)
		Operating temperature	-10 to +60 °C
		Atmospheric humidity (ambient)	10 to 90 % RH (non-condensing)

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Accessories

Order no.

Rubberized impact protection, gray
DIN rail mounting
Magnetic fastening
Instrument case

ZB2490GS2
ZB2490HS
ZB2490MH
ZB2490TK2



DIN rail mounting



Rubberized protection



Magnetic fastening

Standard delivery

Order no.

Batteries, operating instructions, manufacturer's test certificate
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.