ALMEMO[®] Measuring Instruments

ALMEMO[®] 2450



Compact ALMEMO® measuring instrument 1 measuring input, over 35 measuring ranges

Technical data and functions Serie ALMEMO[®] 2450

- 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 XREF)
- Pressure transducer FDA602L/D, FD8214, FD8612, Tachometer, turbine flowmeter (see chapter 10) Current clamps FEA604, Voltage / current measuring

Technical data, ALMEMO® 2450 series

- modules ZA990xAB (see chapter XREF)
- Meteorological radiation probe heads FLA613 (see chapter XREF)
- 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.

Measuring input	1 ALMEMO [®] socket	digital	
Precision class	C (see page 01.05)	Resolution	(see page 01.06 / 01.07)
Measuring rate	2.5 mops	Linearization accuracy	(see page 01.06 / 01.07)
Measuring ranges (see NiCr-Ni(K), NiCroS Cu-CuNi(T), PtRh10	il-NiSil(N),Fe-CuNi(L), Cu-CuNi(U),	Standard equipment LCD 7 segments	Measured value 5 characters, 15 mm Function $4\frac{1}{2}$ characters, 9 mm
Fe-CuNi(J), NTC	-200 to +950 °C -20 to +100 °C	16 segments	Units 2 characters, 9 mm 9 symbols
Voltage	-26 to +26 mV, -260 to +260mV, 0 to 2.6V	Keypad	7 silicone keys
Current	0 to 26 mA, 4 to 20 mA Double connectors with 2 x differenti al voltage / differential current	Power supply Battery set Current consumption	3 AA alkaline batteries approx. 10 mA without input modules
· ·	(input D - B) are not possible. 0 to 100 % RH, (% RH, HcRH, HRH) io, partial vapor pressure, enthalpy, rotating 0 / 100 %), frequency, pulse, rotational speed,	Operating temperature	C) 127 x 83 x 42 mm (LxWxH) -10 to +60 °C mbient) 10 to 90 % RH (non-condensing)

ALMEMO [®] 2450 series, accessories		
ZB2490GS2 ZB2490HS	Magnetic fastening Instrument case	ZB2490MH ZB2490TK2
	ZB2490GS2	ZB2490GS2 Magnetic fastening



DIN rail mounting



Rubberized protection



ALMEMO[®] Measuring Instruments

ALMEMO® 2450-1



Compact measuring instrument with interface Runs in battery mode or via mains unit

Technical data and functions

- Technical data and functions, as for ALMEMO® 2450 series
- 2 ALMEMO[®] output sockets, suitable for all interface cables, network cables, trigger / relay cables
- Complete sensor and device programming via interface
- ALMEMO[®] DC socket for mains adapter.

ALMEMO® 2450-1L

Compact measuring instrument with interface Runs in battery mode

Technical data and functions

• Technical data and functions, as for ALMEMO® 2450 series

Technical data

Technical data, as for ALMEN	AO [®] 2450 series
Sensor power supply	9 V, maximum 0.5 A
Option U	9 V, maximum 70 mA
Power supply	10 to 30 VDC not electr. isolated
Mains adapter	ZA1312NA7 230 VAC to 12 VDC, 1 A
Outputs with option OA2450I only	2 ALMEMO [®] sockets, suitable for all interface cables Internal RS485 interface, electrically isolated, via DC socket

Accessories	Order no.
Mains adapter 12 V, 1 A, with ALMEMO® plug	ZA1312NA7
DC adapter cable	7.4.0 (001117
10 to 30 VDC, 12 V / 0.25 A, electrically isolated	ZA2690UK
Connecting cables	
USB data cable, electrically isolated	ZA1919DKU
Ethernet data cable, electrically isolated	ZA1945DK
Analog output cable, -1.25 to $+2.0$ V, 0.1 mV / digit	ZA1601RK
V24 data cable, electrically isolated	ZA1909DK5
Network technology, Bluetooth modules (see chapter	"Networking")

Power supply, electrically isolated, 10 to 30 VDC, 80 mA

Analog outputs (socket P0), electrically isolated, integrated inter-

including ALMEMO® plug for DC socket

including ALMEMO[®] DC socket option

nally (see page 01.05) ALMEMO® transmitter

Technical data

Technical data as for ALMEMO [®] 2450 series				
Sensor power supply	9 V, maximum 0.5 A			

Option	Order no.
Measuring instrument IP54	
Medsuring instrument if 5 1	

Standard delivery

RS485 interface, internal

Measuring instrument IP54 (if water-proof plugs are used)

Order no.

Order no.

OA2450U

OA2450I

OA2450W

Batteries, operating instructions, manufacturer's test certificate Compact measuring instrument ALMEMO® 2450-1

MA24501

DAkkS / DKD or works calibration KE90xx, electrical, for measuring instrument (see chapter "Calibration certificates")

Standard delivery

Order no.

Batteries, operating instructions, manufacturer's test certificate Compact measuring instrument ALMEMO® 2450-1L MA24501L

DAkkS / DKD or works calibration KE90xx, electrical, for measuring instrument (see chapter "Calibration certificates")

Option