

ALMEMO® 2490A



ALMEMO® basic measuring instrument
Ideal for all sorts of application, quick and easy to operate
1 or 2 measuring inputs, over 65 measuring ranges

Technical data and functions ALMEMO® 2490 series

- Generously dimensioned 2-row static 7 / 16 segment display including units
- Easy and convenient to operate by means of 7 keys
- Over 65 standard measuring ranges
- Memory sufficient for 100 measured values, can be called up and viewed in the display
- Good measuring accuracy, measuring rate up to 10 measuring operations per second (mops)
- Support for ALMEMO® plugs with multi-point adjustment, special linearization, and special measuring ranges
- Measuring functions : Measured value, zero-setting, sensor adjustment, saving of maximum / minimum values, memory for 100 values, cold junction compensation, and temperature compensation
- Test functions : Segment monitoring, range monitoring, sensor breakage indication, battery voltage check and display
- 2 ALMEMO® output sockets, suitable for all interface cables, network cables, trigger / relay cables
new: Ethernet data cable ZA1945-DK
- Complete sensor and device programming via interface
- ALMEMO® DC socket for mains adapter.

Technical data ALMEMO® 2490 series

Precision class	B (see page 01.06)
Measuring rate	2.5 / 10 measuring operations per second
Measuring ranges as on page 01.08 / 01.09 - but Milliamperes DC	-26 to +26 mA
Measuring input	
2490-1A	1 ALMEMO® input socket
2490-2A	2 ALMEMO® input sockets, el. isol., with semicond. relays (50V)
Additional channels	4 function channels, device-internal
Sensor power supply	
<i>new:</i> 9 V, maximum 0.4 A in battery mode	
<i>new:</i> 12 V, maximum 0.4 A via mains unit	
Outputs	2 ALMEMO® sockets, suitable for all interface cables

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
DC socket	<i>new:</i> 12 VDC not electr. isolated
Mains adapter	ZA1312NA10 100 to 240 VAC to 12 VDC, 2 A
Current consumption	approx. 20 mA without input modules
Housing	ABS 127 x 83 x 42 mm (LxWxH)
Operating temperature	-10 to +60 °C
Atmospheric humidity (ambient)	10 to 90 % RH (non-condensing)

ALMEMO® 2490-1A



**Basic measuring instrument,
1 measuring input with interface
Runs in battery mode or via mains unit**

ALMEMO® 2490-2A



**Basic measuring instrument,
2 measuring inputs with interface
Runs in battery mode or via mains unit**

Accessories

Order no.

DIN rail mounting
Rubberized impact protection, green
Magnetic fastening
Instrument case
Mains adapter 12 V, 2 A, with ALMEMO® plug
DC adapter cable 10 to 30 VDC, 12 V / 0.25 A, electrically isolated

ZB2490HS
ZB2490GS1
ZB2490MH
ZB2490TK2
ZA1312NA10
ZA2690UK



DIN rail mounting



Rubberized protection



Magnetic fastening

Connecting cables

Order no.

USB data cable, electrically isolated
Ethernet data cable electrically isolated
Analog output cable, -1.25 to +2.0 V, 0.1 mV / digit
V24 data cable, electrically isolated
Network technology, Bluetooth modules (see chapter „Networking“)

ZA1919DKU
ZA1945DK
ZA1601RK
ZA1909DK5

Standard delivery

Order no.

Batteries, operating instructions, manufacturer's test certificate
Basic measuring instrument ALMEMO® 2490-1A
Basic measuring instrument ALMEMO® 2490-2A

MA24901A
MA24902A

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.