

ALMEMO® Measuring Instruments

Measuring instrument 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
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 16)	Standard equipment	
Measuring rate	2.5 / 10 measuring operations per second	LCD 7 segments	Measured value 5 characters, 15 mm Function 4½ characters, 9 mm
Measuring ranges as on page 17/18 - but		16 segments	Units 2 characters, 9 mm 9 symbols
Milliamperes DC	-26 to +26 mA	Keypad	7 silicone keys
Measuring input		Power supply:	
2490-1A	1 ALMEMO® input socket	Battery set	3 AA alkaline batteries
2490-2A	2 ALMEMO® input sockets, el. isol., with semicond. relays (50 V)	DC socket	12 VDC not electr. isolated
Additional channels	4 function channels, device-internal	Mains adapter	ZA1312NA12 100 to 240 VAC to 12 VDC, 1.5 A
Sensor power supply		Current consumption	approx. 20 mA without input modules
9 V, maximum 0.4 A in battery mode		Housing	ABS 127 x 83 x 42 mm (LxWxH)
12 V, maximum 0.4 A via mains unit		Environmental conditions and general technical data	see page 16 onwards
Outputs	2 ALMEMO® sockets, suitable for all interface cables		

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

DIN rail mounting
 Rubberized impact protection, green
 Magnetic fastening
 Instrument case
 Mains adapter 12 V, 1.5 A, with ALMEMO® plug
 DC adapter cable 10 to 30 VDC, 12 V / 0.25 A, electrically isolated

Order no.

ZB2490HS
 ZB2490GS1
 ZB2490MH
 ZB2490TK2
 ZA1312NA12
 ZA2690UK



DIN rail mounting



Rubberized protection



Magnetic fastening

Connecting cables

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, wireless modules (see chapter „Networking“)

Order no.

ZA1919DKU
 ZA1945DK
 ZA1601RK
 ZA1909DK5

Standard delivery

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

Order no.

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.