

ALMEMO® Measuring Instruments

ALMEMO® 2490



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

10/2013 • We reserve the right to make technical changes.

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

Technical data ALMEMO® 2490 series

Precision class	B (see page 01.05)	Standard equipment	
Measuring rate	2.5 / 10 measuring operations per second	LCD 7 segments	Measured value 5 characters, 15 mm
Measuring ranges as on page XREF - but		16 segments	Function 4½ characters, 9 mm
Milliamperes DC	-26 to +26 mA	Keypad	Units 2 characters, 9 mm
Battery set	3 AA alkaline batteries	Housing	9 symbols
Current consumption	approx. 20 mA without input modules		7 silicone keys
			ABS (maximum 70 °C)
			127 x 83 x 42 mm (LxWxH)

ALMEMO® 2490 series, accessories

			Order no.
DIN rail mounting	ZB2490HS	Magnetic fastening	ZB2490MH
Rubberized impact protection, green	ZB2490GS1	Instrument case	ZB2490TK2



DIN rail mounting



Rubberized protection



Magnetic fastening

ALMEMO® 2490-1 / -2



ALMEMO® 2490-1



ALMEMO® 2490-2

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

Technical data and functions

- Technical data and functions, as for ALMEMO® 2490 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.

Technical data

Technical data, as for ALMEMO® 2490 series

Measuring input	
2490-1	1 ALMEMO® input socket
2490-2	2 ALMEMO® input sockets, el. isol., with semicond. relays (50V)
Additional channels	4 function channels, device-internal
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	2 ALMEMO® sockets, suitable for all interface cables
with option OA2490I only	RS485 interfac

Accessories

Accessories	Order no.
Mains adapter 12 V, 1 A, with ALMEMO® plug	ZA1312NA7
DC adapter cable	
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“)	

Option

Option	Order no.
Power supply, electrically isolated, 10 to 30 VDC, 80 mA including ALMEMO® plug for DC socket	OA2490U
RS485 interface, internal, including option U	OA2490I
Analog outputs, electrically isolated, integrated internally (see page 01.50) ALMEMO® transmitter	
Measuring instrument IP54 (if water-proof plugs are used)	OA2490W

Standard delivery

Batteries, operating instructions, manufacturer's test certificate
Basic measuring instrument ALMEMO® 2490-1 MA24901
Basic measuring instrument ALMEMO® 2490-2 MA24902
 DAkKS / DKD or works calibration KE90xx, electrical,
 for measuring instrument (see chapter „Calibration certificates“)

ALMEMO® 2490-1L / -2L



ALMEMO® 2490-1L



ALMEMO® 2490-2L

Basic measuring instrument
Runs in battery mode

Technical data and functions

- Technical data and functions, as for ALMEMO® 2490 series

Technical data

Technical data, as for ALMEMO® 2490 series

Measuring inputs	
2490-1L	1 ALMEMO® input socket
2490-2L	2 ALMEMO® input sockets, el. isol., with semicond. relays (50 V)
Sensor power supply	9 V, maximum 0.5 A
Outputs	None

Option

Option	Order no.
Measuring instrument IP54 (if water-proof plugs are used)	OA2490W

Standard delivery

Batteries, operating instructions, manufacturer's test certificate
Basic measuring instrument ALMEMO® 2490-1L MA24901L
Basic measuring instrument ALMEMO® 2490-2L MA24902L
 DAkKS / DKD or works calibration KE90xx, electrical,
 for measuring instrument (see chapter „Calibration certificates“)