

# 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**

06/2018 • 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
- 2 ALMEMO® output sockets, suitable for all interface cables, network cables, trigger / relay cables (except 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)	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 01.08 / 01.09 - but		16 segments	Function 4½ characters, 9 mm
Milliamperes DC	-26 to +26 mA	Keypad	Units 2 characters, 9 mm
Measuring input		Power supply:	9 symbols
2490-1	1 ALMEMO® input socket	Battery set	7 silicone keys
2490-2	2 ALMEMO® input sockets, el. isol., with semicond. relays (50V)	DC socket	
Additional channels	4 function channels, device-internal	Mains adapter	3 AA alkaline batteries
Sensor power supply	9 V, maximum 0.5 A	Current consumption	10 to 30 VDC not electr. isolated
Option U	9 V, maximum 70 mA	Housing	ZA1312NA10
Outputs	2 ALMEMO® sockets, suitable for all interface cables	Operating temperature	100 to 240 VAC to 12 VDC, 2 A
with option OA2490I only	RS485 interfac, internal electrically isolated, via DC socket	Atmospheric humidity (ambient)	approx. 20 mA without input modules

## ALMEMO® 2490-1



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

## ALMEMO® 2490-2



**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, 2 A, with ALMEMO® plug  
DC adapter cable 10 to 30 VDC, 12 V / 0.25 A, electrically isolated

### Order no.

ZB2490HS  
ZB2490GS1  
ZB2490MH  
ZB2490TK2  
ZA1312NA10  
ZA2690UK



DIN rail mounting



Rubberized protection



Magnetic fastening

### Connecting cables

USB 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“)

### Order no.

ZA1919DKU  
ZA1601RK  
ZA1909DK5

### Option

Power supply, electrically isolated, 10 to 30 VDC, 80 mA including ALMEMO® plug for DC socket  
RS485 interface, internal, including option U  
Analog outputs, electrically isolated, integrated internally (see page 01.56) ALMEMO® transmitter  
Measuring instrument IP54 (if water-proof plugs are used)

### Order no.

OA2490U  
OA2490I  
OA2490W

### Standard delivery

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

### Order no.

MA24901  
MA24902

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.