## **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

#### 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 01.04)	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 Milliamperes DC	-26 to +26 mA	16 segments	Function 4½ characters, 9 mm Units 2 characters, 9 mm 9 symbols
<u>-</u>		Keypad	7 silicone keys
Battery set  Current consumption	3 AA alkaline batteries approx. 20 mA without input modules	Housing	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







### **ALMEMO® Measuring Instruments**

## ALMEMO® 2490-1 / -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	ZA1312NA10	
•	100 to 240 VAC to 12 VDC, 2 A	
Outputs	2 ALMEMO® sockets,	
-	suitable for all interface cables	
with option OA2490I only	RS485 interfac	

Accessories	Order no.
Mains adapter 12 V, 2 A, with ALMEMO® plug	ZA1312NA10
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	<b>ZA1601RK</b>
V24 data cable, electrically isolated.	ZA1909DK5
Network technology, Bluetooth modules (see chapter	"Networking")

Option	Order no.
Power supply, electrically isolated, 10 to 30 VDC, 8	0 mA
including ALMEMO® plug for DC socket	OA2490U
RS485 interface, internal, including option U	OA2490I
Analog outputs, electrically isolated, integrated inter-	rnally
(see page 01.56) ALMEMO® transmitter	
Measuring instrument IP54	
(if water-proof plugs are used)	<b>OA2490W</b>

#### Standard delivery Order no.

Batteries, operating instructions, manufacturer's test certificate Basic measuring instrument ALMEMO® 2490-1 MA24901 Basic measuring instrument ALMEMO® 2490-2 MA24902

### ALMEMO® 2490-1L / -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	Order no.
No. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Measuring instrument IP54 (if water-proof plugs are used)	OA2490W

#### Standard delivery

Order no.

Batteries, operating instructions, manufacturer's test certificate Basic measuring instrument ALMEMO® 2490-1L MA24901L Basic measuring instrument ALMEMO® 2490-2L MA24902L