

ALMEMO® Measuring Instruments

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

10/2021 • 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
new: Ethernet data cable ZA1945-DK
- Complete sensor and device programming via interface
- ALMEMO® DC socket for mains adapter.

Technical data ALMEMO® 2490 series

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|---|---|---|--|
| 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 |
| 2490-1A | 1 ALMEMO® input socket | Battery set | 7 silicone keys |
| 2490-2A | 2 ALMEMO® input sockets, el. isol., with semicond. relays (50V) | DC socket | 3 AA alkaline batteries |
| Additional channels | 4 function channels, device-internal | Mains adapter | <i>new</i> : 12 VDC not electr. isolated |
| Sensor power supply | | Current consumption | ZA1312NA12 |
| <i>new</i> : 9 V, maximum 0.4 A in battery mode | | Housing | 100 to 240 VAC to 12 VDC, 1.5 A |
| <i>new</i> : 12 V, maximum 0.4 A via mains unit | | Environmental conditions and general technical data | approx. 20 mA without input modules |
| Outputs | 2 ALMEMO® sockets, suitable for all interface cables | | ABS 127 x 83 x 42 mm (LxWxH) |



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ALMEMO® Measuring Instruments

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, Bluetooth 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