## 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 general technical specifications) |
| Measuring rate | 2.5 / 10 measuring operations per second |
| Measuring ranges see general technical specifications - but | |
| Milliamperes DC | -26 to +26 mA |
| Measuring input | |
| 2490-1A | 1 ALMEMO® input socket |
| 2490-2A | 2 ALMEMO® input sockets, el. isol., with semicond. relays (50 V) |
| Additional channels | 4 function channels, device-internal |
| Sensor power supply | |
| 9 V, maximum 0.4 A in battery mode | |
| 12 V, maximum 0.4 A via mains unit | |
| Outputs | 2 ALMEMO® sockets, suitable for all interface cables |

| | |
|---|---|
| Standard equipment | |
| LCD 7 segments | Measured value 5 characters, 15 mm<br>Function 4½ characters, 9 mm |
| 16 segments | Units 2 characters, 9 mm<br>9 symbols |
| Keypad | 7 silicone keys |
| Power supply: | |
| Battery set | 3 AA alkaline batteries |
| DC socket | 12 VDC not electr. isolated |
| Mains adapter | ZA1312NA12<br>100 to 240 VAC to 12 VDC, 1.5 A |
| Current consumption | approx. 20 mA without input modules |
| Housing | ABS 127 x 83 x 42 mm (LxWxH) |
| Environmental conditions see general technical data | |

## 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

| | Order no. |
|---|---|
| DIN rail mounting | **ZB2490HS** |
| Rubberized impact protection, green | **ZB2490GS1** |
| Magnetic fastening | **ZB2490MH** |
| Instrument case | **ZB2490TK2** |
| Mains adapter 12 V, 1.5 A, with ALMEMO® plug | **ZA1312NA12** |
| DC adapter cable 10 to 30 VDC, 12 V / 0.25 A, electrically isolated | **ZA2690UK** |



DIN rail mounting



Rubberized protection



Magnetic fastening

## Connecting cables

| | Order no. |
|---|---|
| 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, wireless modules (see chapter „Networking“) | |

## Standard delivery

| | Order no. |
|---|---|
| Batteries, operating instructions, manufacturer’s test certificate | |
| **Basic measuring instrument ALMEMO® 2490-1A** | **MA24901A** |
| **Basic measuring instrument ALMEMO® 2490-2A** | **MA24902A** |

DAkkS accredited calibration or works calibration KE90xx, electrical, for measuring instrument, see chapter „Calibration certificates“.
DAkkS accredited calibration meets all the requirements regarding test resources laid down in DIN EN ISO/IEC 17025.

11/2025 • We reserve the right to make technical changes.