

ALMEMO® 2890-9



ALMEMO® precision measuring instrument with data logger function. Comprehensive range of functions for all application areas. Increased measuring accuracy, fast measuring rate. Generously dimensioned graphics display, bright illumination. 9 measuring inputs Runs on rechargeable batteries, charging via the device itself

Technical data and functions

- Increased measuring accuracy and stability
- Fast measuring rate, up to 50 measuring operations per second
With SD memory card, up to 100 mops, optional for 1 channel up to 500 mops
- 9 measuring inputs, electrically isolated
- Over 65 standard measuring ranges
- Support for ALMEMO® plugs with multi-point adjustment, special linearization, and special measuring ranges
- Option KL for independent multi-point adjustment or special linearization programmable in 30 points and management of calibration data saved in the sensor connector and the measuring instrument
- Higher measuring quality thanks to electrical isolation between measuring inputs and device power supply (device ground)
- Improved cold junction compensation with 2 sensors
- Data logger with internal EEPROM, sufficient for 100,000 measured values, configurable as linear or ring memory
- Memory connector with micro SD (accessory)
- Sleep mode for long-term recording
- Generously dimensioned graphics display, bright illumination, large display of measured values
- Measured values can be displayed graphically in line chart or bar chart form or numerically in various sizes.
- 3 user-defined menus can be freely configured from a range of 50 functions.
- Easy to operate by means of 4 soft-keys and cursor block, menu-guided with wizards and context-sensitive help windows
- Choice of languages : German, English, French
- 2 ALMEMO® output sockets, suitable for digital interfaces, analog output, trigger input, alarm contacts, memory card
- Runs on rechargeable batteries (as standard), high-speed charging in the device itself using mains unit, included in delivery

Technical data

Precision class	AA (see page 01.04)	Keypad	9 membrane keys (4 soft-keys), thumb-wheel
Measuring rate	(100), 50, 10 and 2.5 mops (measuring operations per second)	Memory, EEPROM	sufficient for 100,000 measured values
Measuring inputs	9 ALMEMO® input sockets	Date and time-of-day	Real-time clock, buffered with battery
Electrical isolation for analog sensors	with semiconductor relays (50 V) Additional electrical isolation between measuring inputs and power supply (device ground)	Power supply	
Additional channels	4 function channels, device-internal	Rechargeable battery pack	6 rechargeable NiMH batteries, 1600 mA Integrated high-speed charging (2.5 h)
Sensor power supply		Mains adapter	ZB1112NA10 100 to 230 VAC to 12 VDC, 2 A electrically isolated
Rechargeable battery/ies	9 or 12 V, maximum 0.5 A	DC adapter cable	electrically isolated ZB2590-UK 10 to 30 V, 1 A
Mains adapter	12 V, maximum 0.3 A	Current consumption (without input and output modules)	
Outputs	2 ALMEMO® sockets, suitable for all output modules (analog / data / trigger / relay cables, memory, etc.)	Active mode	approx. 37 mA
Standard equipment		With illumination	approx. 45 to 100 mA
Display		Sleep mode	approx. 0.05 mA
Graphics display	128 x 128 pixels, 16 rows	Housing	204 x 109 x 44 mm (LxWxH)
Illumination	5 white LEDs, 3 brightness levels		ABS, 550g

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Precision measuring instrument, 9 measuring inputs
Data logger with internal memory or external memory connector (accessory)

Accessories

Order no.

Memory connector with micro SD, including USB card reader (see chapter „General accessories“)

ZA1904SD

DC adapter cable, 10 to 30 VDC, 12 V / 1 A, electrically isolated

ZB2590UK

Generously dimensioned carry case, aluminum profile frame / ABS

ZB2590TK2

Connecting cables

Order no.

V24 data cable, electrically isolated

ZA1909DK5

Ethernet data cable, electrically isolated

ZA1945DK

Analog output cable, electrically isolated , 1 x 20mA

ZA1601RI

Analog output cable, electrically isolated , 2 x 10V

ZA1602RU

Trigger and alarm cable (2 relays, 0.5 A, 50 V)

ZA1006EKG

Network technology, Bluetooth modules (see chapter „Networking“)

Options

Order no.

Multi-point adjustment, special linearization, management of calibration data

OA2890KL

Temperature ranges for 8 refrigerants

SB0000R2

Measuring rate 500 mops (SD card required)

SA0000Q5

Standard delivery

Order no.

Rechargeable battery pack, mains unit ZB1112NA10, USB data cable ZA1919DKU, case ZB2490TK2,

Operating instructions, manufacturer's test certificate

Precision measuring instrument ALMEMO® 2890-9

MA28909

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

