ALMEMO® Measuring Instruments

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 400 mops
- 9 measuring inputs, electrically isolated
- Over 65 standard measuring ranges
- New measuring range Pt100 with very high resolution of 0.001 3 user-defined menus can be freely configured from a range of K in range -8 to +65 °C
- 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

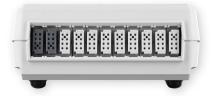
- Memory connector with micro SD (accessory)
- Sleep mode for long-term recording
- Generously dimensioned graphics display, bright illumination, large display of measured values
- Measured values can be displayed graphically in line chart or bar chart form or numerically in various sizes.
- 50 functions.
- Easy to operate by means of 4 soft-keys and cursor block, menu-guided with wizards and context-sensitive help windows
- · Additional thumb-wheel for extra cursor speed
- Choice of languages : German, English, French (other options also available)
- 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 01.05)	Keypad	9 membrane keys (4 soft-keys),
Measuring rate	2.5 / 10 / 50 / 100 mops		thumb-wheel
	(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 Rechargeable battery pack Mains adapter	6 rechargeable NiMH batteries, 1600 mA Integrated high-speed charging (2.5 h) ZB1112NA7 230 VAC to 12 VDC, 1 A
Additional channels	4 function channels, device-internal	-	electrically isolated
Sensor power supply 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 mA	· · ·	ut input and output modules)
Outputs	2 ALMEMO [®] sockets, suitable for all output modules (analog / data / trigger / relay cables, memory, etc.)	Active mode With illumination Sleep mode	approx. 37 mA approx. 45 to 100 mA approx. 0.05 mA
Standard equipment Display	Telay cables, memory, etc.)	- Housing	204 x 109 x 44 mm (LxWxH) ABS (maximum 70 °C), 550g
Graphics display Illumination	128 x 128 pixels, 16 rows 5 white LEDs, 3 brightness levels		

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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.
USB data cable, electrically isolated	ZA1919DKU
V24 data cable, electrically isolated	ZA1909DK5
Ethernet data cable, electrically isolated	ZA1945DK
Analog output cable, -1.25 to +2.0 V, 0.1 mV / digit	ZA1601RK
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	OA2690KL
Temperature ranges for 8 refrigerants	SB0000R2
Measuring rate 400 mops (SD card required)	SA0000Q4
Standard delivery	Order no.
Rechargeable battery pack, desktop mains unit ZA1312NA7, case ZB2490TK2,	
Operating instructions, manufacturer's test certificate	
Precision measuring instrument ALMEMO [®] 2890-9	MA28909
DAkkS / DKD or works calibration KE90xx, electrical, for measuring instrument (see chapter "Calibration certificates"	

