ALMEMO® Measuring Instruments

ALMEMO® 2690-8A

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, 5 measuring inputs. Runs on rechargeable batteries, charging via the device itself

Technical data and functions ALMEMO® 2690-8A

- 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
- 5 measuring inputs, electrically isolated
- Integrated atmospheric pressure sensor, for automatic pressure compensation, inter alia for Pitot tube flow measurement and humidity variables
- 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
- Option GT for 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 200,000 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 (standard), high-speed charging in the device itself using the mains unit, included in delivery
- Modern housing with rubberized impact protection and folding stand, splash-proof

Technical data

Precision class	AA (see page 01.04)
Measuring rate	(100), 50, 10 and 2.5 mops
Measuring inputs	5 ALMEMO® input sockets
Electrical isolation	with semiconductor relays (50 V) for analog sensors
Option GT	Additional electrical isolation between measuring inputs and power supply (device ground)
Additional channels	4 function channels, device-internal
Sensor power supply	
Rechargeable battery/ies	6 / 9 / 12 V, maximum 0.5 A
Mains adapter	12 V, maximum 0.5 A
Atmospheric pressure sensor	Integrated
Measuring range	700 to 1100 mbar
Accuracy	±2.5 mbar (at 23 °C ±5 K)
Outputs	2 ALMEMO® sockets, suitable for all output modules (analog / data / trigger / relay cables, memory, etc.)
Graphics display	128 x 128 pixels, 16 rows
Illumination	5 white LEDs, 3 brightness levels

Keypad	9 tactile silicone keys (4 soft-keys)
Memory	EEPROM sufficient for 200,000 measured values
Date and time-of-day	Real-time clock, buffered with battery
Power supply	
Rechargeable battery/ies	3 AA batteries NiMH or alkaline integrated, high-speed charging (2.5 hours)
Mains adapter	ZA1312NA10 100 to 240 VAC to 12 VDC, 2 A electrically isolated
DC adapter cable	electrically isolated ZA2690-UK2 10 to 30 V, 1 A
Current consumption (without input and output modules)	
Active mode	approx. 17 mA
With illumination	approx. 25 to 140 mA
Sleep mode	approx. 0.05 mA
Housing	209 x 107 x 54 mm (LxWxH) ABS (maximum +70 °C), 570 g
Protective class	IP54 (if water-proof plugs / sensors are used)

ALMEMO® 2690-8A

Precision measuring instrument, 5 measuring inputs
Data logger with internal memory or external memory connector (accessory)

Accessories | Order no.

	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	ZA2690UK2
Generously dimensioned carry case, aluminum profile frame / ABS	ZB2590TK2

Connecting cables | Order no.

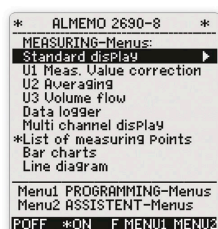|			
Ethernet data cable, electrically isolated	ZA1945DK	Trigger and alarm cable (2 relays, 0.5 A, 50 V)	ZA1006EKG
Analog output cable, -1.25 to +2.0 V, 0.1 mV / digit	ZA1601RK	Network technology, Bluetooth modules (see chapter „Networking")	

Options | Order no.

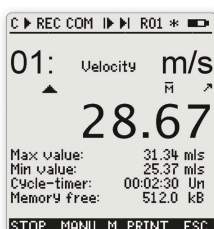|	Order no.
Measuring module electrically isolated	OA2690GT
Multi-point adjustment, special linearization, management of calibration data	OA2690KL
Temperature ranges for 8 refrigerants	SB0000R2
Measuring rate 500 mops (SD card required)	SA0000Q5
DIN rail mounting	OA2290HS

Standard delivery | Order no.

3 rechargeable NiMH batteries, rubberized protection, mains unit ZA1312NA10, USB data cable ZA1919DKU, Case ZB2490TK2, Operating instructions, manufacturer's test certificate

	Order no.
Precision measuring instrument ALMEMO® 2690-8A in case set	**MA26908AKSU**
as above but with RS232 data cable ZA1909DK5	
Precision measuring instrument ALMEMO® 2690-8A in case set	**MA26908AKS**

DAkkS or works calibration KE90xx, electrical, for measuring instrument (see chapter „Calibration certificates").
DAkkS calibration meets all the requirements regarding test resources laid down in DIN EN ISO/IEC 17025.
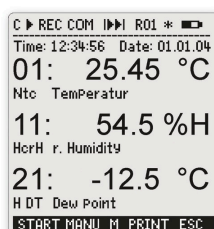
Operating concept as for precision measuring instruments ALMEMO® 2690, 2890 und 5690 / 5790
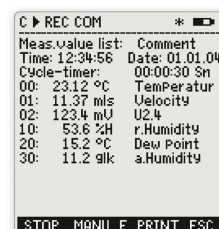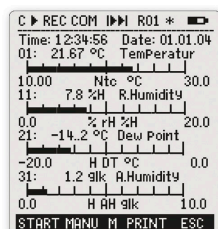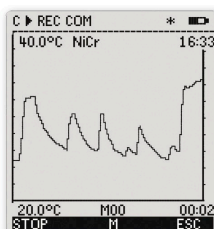
Menu selection

Standard display

Multi-channel display

Measuring points list

Bar chart

Line diagram

Programming rmenu

Assistent menu

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