

## Data logger ALMEMO® 2690-8A



**ALMEMO® data logger**  
**Precision measuring instrument**  
**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 de-**  
**vice 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
- 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.

## Technical data

Precision class	AA (see general technical specifications)	Illumination	5 white LEDs, 3 brightness levels
Measuring rate	(100), 50, 10 and 2.5 mops	Keypad	9 tactile silicone keys (4 soft-keys)
Measuring inputs	5 ALMEMO® input sockets	Memory	EEPROM sufficient for 200,000 measured values
Electrical isolation	with semiconductor relays (50 V) for analog sensors	Date and time-of-day	Real-time clock, buffered with battery
Option GT (standard from order no. H2411x)	Additional electrical isolation between measuring inputs and power supply (device ground)	Power supply	
Additional channels	4 function channels, device-internal	Rechargeable battery/ies	3 AA batteries NiMH or alkaline integrated, high-speed charging (2.5 hours)
Sensor power supply		Mains adapter	ZA1312NA12 100 to 240 VAC to 12 VDC, 1.5 A electrically isolated
Rechargeable battery/ies	6 / 9 / 12 V, maximum 0.5 A	DC adapter cable	electrically isolated ZA2690-UK2 10 to 30 V, 1 A
Mains adapter	12 V, maximum 0.5 A	Current consumption (without input and output modules)	
Atmospheric pressure sensor	Integrated	Active mode	approx. 17 mA
Measuring range	700 to 1100 mbar	With illumination	approx. 25 to 140 mA
Accuracy	±2.5 mbar (at 23 °C ±5 K)	Sleep mode	approx. 0.05 mA
Outputs	2 ALMEMO® sockets, suitable for all output modules (analog / data / trigger / relay cables, memory, etc.)	Housing	209 x 107 x 54 mm (LxWxH) ABS, 570 g
Graphics display	128 x 128 pixels, 16 rows	Environmental conditions	see general technical data

## ALMEMO® 2690-8A



**Precision measuring instrument, 5 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	ZA2690UK2
Generously dimensioned carry case, aluminum profile frame / ABS	ZB2590TK2

### Connecting cables

	Order no.
Ethernet data cable, electrically isolated	ZA1945DK
Analog output cable, electrically isolated, 1 x 20 mA	ZA1601RI
Analog output cable, electrically isolated, 2 x 10 V	ZA1602RU
Trigger and alarm cable (2 relays, 0.5 A, 50 V)	ZA1006EKG
Network technology, wireless modules (see chapter „Networking“)	

### Options

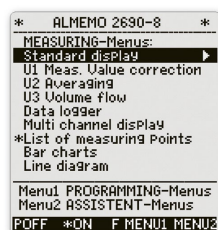
	Order no.
Multi-point adjustment, special linearization, management of calibration data	OA2690KL
Temperature ranges for 8 refrigerants	SB0000R2
Measuring rate 500 mops (SD card required)	SA0000Q5
DIN rail mounting	OA2290HS

### Standard delivery

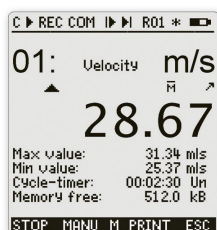
	Order no.
3 rechargeable NiMH batteries, rubberized protection, mains unit ZA1312NA12, USB data cable ZA1919DKU, Case ZB2490TK2, Operating instructions, manufacturer's test certificate	
<b>Precision measuring instrument ALMEMO® 2690-8A in case set</b>	<b>MA26908AKSU</b>
as above but with RS232 data cable ZA1909DK5	
<b>Precision measuring instrument ALMEMO® 2690-8A in case set</b>	<b>MA26908AKS</b>

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.

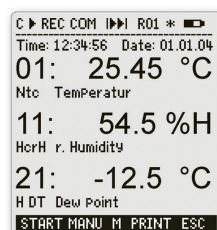
## Operating concept as for precision measuring instruments ALMEMO® 2690, 2890 and 5690 / 5790



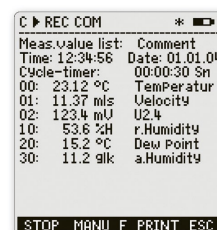
Menu selection



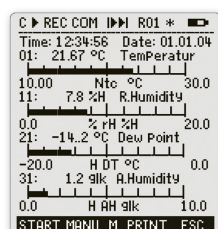
Standard display



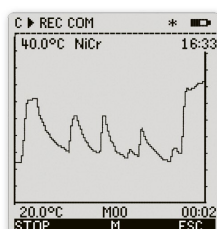
Multi-channel display



Measuring points list



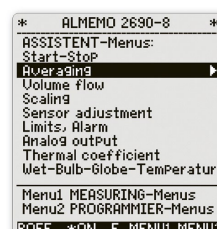
Bar chart



Line diagram



Programming menu



Assistent menu