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 • Measured values can be displayed graphically in line chart or 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
- 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 page 01.04)	Keypad	9 tactile silicone keys (4 soft-keys)
Measuring rate	(100), 50, 10 and 2.5 mops	Memory	EEPROM
Measuring inputs	5 ALMEMO [®] input sockets		sufficient for 200,000 measured values
Electrical isolation	with semiconductor relays (50 V)	Date and time-of-day	Real-time clock, buffered with battery
	for analog sensors	Power supply	
Option GT	Additional electrical isolation between	Rechargeable battery/ies	3 AA batteries NiMH or alkaline
	measuring inputs and power supply		integrated, high-speed charging (2.5 hours)
	(device ground)	Mains adapter	ZA1312NA10 100 to 240 VAC
Additional channels	4 function channels, device-internal	_	to 12 VDC, 2 A electrically isolated
Sensor power supply		DC adapter cable	electrically isolated
Rechargeable battery/ies	6 / 9 / 12 V, maximum 0.5 A		ZA2690-UK2 10 to 30 V, 1 A
Mains adapter	12 V, maximum 0.5 A	Current consumption (with	out 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 /	Housing	209 x 107 x 54 mm (LxWxH)
			ABS, 570 g
	relay cables, memory, etc.)		
Graphics display	128 x 128 pixels, 16 rows	-	
Illumination	5 white LEDs, 3 brightness levels		

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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") DC adapter cable, 10 to 30 VDC, 12 V / 1 A, electrically isolated Generously dimensioned carry case, aluminum profile frame / ABS				
Connecting cables			Order no.	
Ethernet data cable, electrically isolated Analog output cable, -1.25 to +2.0 V, 0.1 mV / digit	ZA1945DK ZA1601RK	Trigger and alarm cable (2 relays, 0 Network technology, Bluetooth mo		
Options			Order no.	
Measuring module electrically isolated Multi-point adjustment, special linearization, management of calibration data Temperature ranges for 8 refrigerants Measuring rate 500 mops (SD card required) DIN rail mounting				
Standard delivery			Order no.	
3 rechargeable NiMH batteries, rubberized prote			ZA1919DKU,	
Case ZB2490TK2, Operating instructions, manufacturer's test certificate Precision measuring instrument ALMEMO® 2690-8A in case set as above but with RS232 data cable ZA1909DK5				
Precision measuring instrument ALMEMO® DAkkS or works calibration KE90xx, o DAkkS calibration meets all the req	electrical, for me			
Operating concept as for precision n	neasuring ir	nstruments ALMEMO [®] 269	0, 2890 und 5690 / 579	
U2 Averaging U3 Volume flow	oity m/s R .67 31.34 mis 25.37 mis 00022:30 Un 512.0 kB	C ▶ REC COM INPL R01 * Time: 12:34:56 Date: 01.01.04 O1: 25.45 °C Ntc TemPeratur 11: 54.5 %H HorH r. Humidity 21: -12.5 °C H DT Dew Point STRIT MINU M PRINT ESC	C ▶ REC COM * ■ Meas.value list: Comment Time: 12:34:56 Date: 01.01.04 Cvole-timer: 00:00:30 Sn 00: 23:12 °C Temperatur 01: 11:37 mis Uelocity 02: 12:34 mJ U2.4 10: 53.6 2M r.Humidity 20: 15.2 °C Dew point 30: 11.2 glk a.Humidity STOP MANU F PRINT ESC	

Measuring points list



Standard display



Line diagram

Programming rmenu

Multi-channel display

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* ALMEMO 2690-8 PROGRAMMING-Menus: Times, cycles According to memory Output from memory Sensor Programming ...Special functions Device configuration Output modules Power supPly

Menul ASSISTENT-Menus Menu2 MEASURING-Menus

POFF *ON F MENU1 MENU2

Assistent menu

Menu selection

C 🕨 REC COM INNI RO1 * 🚥

C ► REC COM ►► R01 * Time: 1234:56 Date 010.04 01: 21.67 °C TemPeratur 10.00 Ntc °C 30.0 11: 7.8 %H R.Humidity 0.0 %H %H 20.0 21: -14.2 °C Dew Point -20.0 H 0T °C 0.0 31: 1.2 9K R.Humidity 0.0 H 8H 91k 10.0 STORY MONUL M PENT ESC

START MANU M PRINT ESC

Bar chart