



ALMEMO® MEASURING INSTRUMENTS new!

Handheld data logger ALMEMO® 2690-8 with 5 measuring inputs, 2 outputs, RS232, Ethernet, analog













Technical features

- Modern housing with rubberized impact protection and positioning clip; also moisture-proof thanks to new, injection-molded connectors and sealing lips
- 5 ALMEMO[®] input sockets, electrically isolated, for 5 ALMEMO[®] sensors, 20 sensor chann., 4 additional internal function chann. 2 ALMEMO[®] output sockets for digital interfaces, analog output,
- High-speed, high-resolution A/D converter, 24-bit, 50 meas. op. per sec. New measuring ranges Pt100, 0.000 to 65.000 °C Ideal display with large, brightly illuminated graphics
- Easy and convenient operation by means of 4 soft-keys and cursor block, Comprehensive menu system with wizards and help windows
- 9 measuring menus (3 can be freely configured by user from range of 50 functions)
- Measured values can be displayed graphically in line diagram or bar chart form and from 1 to 20 measured values can be displayed numerically in various sizes.
- Measuring functions : Measured value, zero-setting, setpoint adjustment, maximum and minimum values stored with date and time-of-day, smoothing, average values over time or measuring points, limit value monitoring, cold junction compensation, temperature compensation, and atmospheric pressure compensation
- 8 programming menus for easy-to-understand parametrization of cycles, times, memory, output modules, and power supply Sensor programming with range, units, comments, scaling, error correction, etc.
- New Option KL : Multi-point calibration, calibration data nanagement, user-defined linearization, special ranges in the ALMEMO® connector, e.g. 0.000 to 50.000 ohms, NTC -5.000 to 46.000 °C, YSI 400
- 10 wizards for quickly and easily mastering otherwise complex configurations : Sensor scaling, two-point adjustment, calculation functions, and reference channels; Sensor programming for determining thermal coefficients and wet-bulb globe temperature (WBGT), alarm relay assignment, scaling, and analog output assignment
- Choice of languages : German, English, French EEPROM with capacity for 100,000 measured values, internally configurable as linear or ring memory Memory connector with MMC card and standard file format
- SLEEP mode for long-term recording
- New Device software update via interface

Technical data	
Measuring inputs:	5 ALMEMO [®] input sockets, electr. isol., with semiconductor relay (50 V)
Channels	5 primary chann., maximum 19 additional chann. for double sensors an function chann. (e.g. differential values)
A/D converter	Delta-sigma 24-bit, 50 meas. op. p. s. see Technical data, page 01.05
Sensor power supply	Battery 6 / 9 / 12 V, maximum 100 mA Mains adapter 12 V, maximum 100 mA
Outputs	2 ALMEMO [®] sockets for all output modules (analog, data, trigger, relay cables, memory etc.)
Standard equipment Display	Graphics, 128x128 pixels, 16 rows Lighting, 5 white LEDs, 3 levels
Keypad	9 tactile silicone keys (4 soft-keys)
Memory	512-KB EEPROM (100,000 meas. values
Date and time-of-day	Real-time clock, buffered with battery
Power supply Battery	3 AA alkaline batt. or rechargeable batt.
Mains adapter	ZA2690NA1, 230 V AC to 12 V DC, 600 mA, electrically isolated DC adapter cable, electrically isolated ZA2690-UK, 10 to 30 V, 0.25 A
Current consumption w Active mode with lighting SLEEP mode	ithout input and output modules approx. 30 mA approx. 50 to 150 mA approx. 0.05 mA
Housing	(LxWxH) 209 x 107 x 54 mm ABS (maximum 70 °C), 570 g
Protection	IP54 (from 2nd quarter 2005) if water- proof connectors / sensors are used

Uther general data see lechnical Data, page 01.05

0 ,1 0			
Extent of the delivery	Order no.		
Data logger ALMEMO [®] 2690-8, Operating instructions,			
ALMEMO [®] Manual, including manufacturer's test certificate,			
AMR-Control software	MA26908		
Data logger set ALMEMO [®] 2690-8 in case, as ab including mains adapter and data cable in case	ove MA26908KS		
Option KL Multi-point calibration, special ranges OA2690KL			
Option R Temperature ranges for 8 coolants	SB0000R		
Accessories			
Mains adapter 12 V / 600 mA	ZA2690NA1		
Rechargeable battery set with 3 NiMH AA cells			
1600 mAh, coded, and adapter	74262246		
for high-speed charging, maximum 2 A	ZA2690AS		
DC adapter cable, 10 to 30 V DC, 12 V / 0.25 A, electr. isol.	ZA2690UK		
Memory connector with MMC card (QI 05)	ZA1904MMC		
Analog output cable, -1.25 to 2.0 V, 0.1 mV / digit			
	ZA1601 RK		
Trigger and alarm cable	741000501		
(2 relays, 1 ohm, 300 mA, 50 V)	ZA1000EGK		
V24 data cable, electr. isol., max. 115.2 KB	ZA1909DK5		
Ethernet data cable, electr. isol., max. 115.2 KB	ZA1945DK		
Network cable, electr. isol., max. 115.2 KB	ZA1999NK5		
Transport case, large (aluminum),			
see Chapter 07	ZB2590TK2		

Network technology, Bluetooth modules, see Chapter 05