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.

Technical data

<table>
<thead>
<tr>
<th>Precision class</th>
<th>AA (see page 01.04)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measuring rate</td>
<td>(100), 50, 10 and 2.5 mops</td>
</tr>
<tr>
<td>Measuring inputs</td>
<td>5 ALMEMO® input sockets</td>
</tr>
<tr>
<td>Electrical isolation</td>
<td>with semiconductor relays (50 V) for analog sensors</td>
</tr>
<tr>
<td>Option GT</td>
<td>Additional electrical isolation between measuring inputs and power supply (device ground)</td>
</tr>
<tr>
<td>Additional channels</td>
<td>4 function channels, device-internal</td>
</tr>
<tr>
<td>Sensor power supply</td>
<td></td>
</tr>
<tr>
<td>Rechargeable battery/ies 6 / 9 / 12 V, maximum 0.5 A</td>
<td></td>
</tr>
<tr>
<td>Mains adapter 12 V, maximum 0.5 A</td>
<td></td>
</tr>
<tr>
<td>Atmospheric pressure sensor Integrated</td>
<td></td>
</tr>
<tr>
<td>Measuring range 700 to 1100 mbar ±2.5 mbar (at 23 °C ±5 K)</td>
<td></td>
</tr>
<tr>
<td>Outputs 2 ALMEMO® sockets, suitable for all output modules (analog / data / trigger / relay cables, memory, etc.)</td>
<td></td>
</tr>
<tr>
<td>Graphics display</td>
<td>128 x 128 pixels, 16 rows</td>
</tr>
<tr>
<td>Illumination</td>
<td>5 white LEDs, 3 brightness levels</td>
</tr>
<tr>
<td>Keypad</td>
<td>9 tactile silicone keys (4 soft-keys)</td>
</tr>
<tr>
<td>Memory</td>
<td>EEPROM</td>
</tr>
<tr>
<td>Date and time-of-day</td>
<td>Real-time clock, buffered with battery</td>
</tr>
<tr>
<td>Power supply</td>
<td></td>
</tr>
<tr>
<td>Rechargeable battery/ies 3 AA batteries NiMH or alkaline</td>
<td></td>
</tr>
<tr>
<td>Mains adapter ZA1312NA10 100 to 240 VAC to 12 VDC, 2 A electrically isolated</td>
<td></td>
</tr>
<tr>
<td>DC adapter cable ZA2690-UK2 10 to 30 V, 1 A</td>
<td></td>
</tr>
<tr>
<td>Current consumption (without input and output modules)</td>
<td></td>
</tr>
<tr>
<td>Active mode approx. 17 mA</td>
<td></td>
</tr>
<tr>
<td>With illumination approx. 25 to 140 mA</td>
<td></td>
</tr>
<tr>
<td>Sleep mode approx. 0.05 mA</td>
<td></td>
</tr>
<tr>
<td>Housing</td>
<td>209 x 107 x 54 mm (LxWxH) ABS, 570 g</td>
</tr>
</tbody>
</table>
ALMEMO® Measuring Instruments

ALMEMO® 2690-8A

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

Accessories
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

Order no.
ZA1904SD
ZA2690UK2
ZB2590TK2

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

Order no.
ZA1945DK
ZA1601RK
ZA1006EKG

Options
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

Order no.
OA2690GT
OA2690KL
SB0000R2
SA0000Q5
OA2290HS

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

Order no.
MA26908AKS

Precision measuring instrument ALMEMO® 2690-8A in case set
as above but with RS232 data cable ZA1909DK5

Order no.
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