# ALMEMO<sup>®</sup> Measuring Instruments

### ALMEMO® 8590 /8690 series



ALMEMO<sup>®</sup> precision measuring instrument for measured data acquisition, with data logger function. Comprehensive range of functions for all application areas. Increased measuring accuracy, fast measuring rate 9 measuring inputs. Operates as data logger or PC interface, also with rechargeable batteries.

# Technical data and functions, ALMEMO® 8590 /8690

- · 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
- 9 measuring inputs, electrically isolated
- Over 65 standard measuring ranges
- Support for ALMEMO<sup>®</sup> 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)

## Technical data ALMEMO® 8590 /8690

- Improved cold junction compensation with 2 sensors
- Data logger option Internal EEPROM sufficient for 100,000 measured values (option S) configurable as linear or ring memory - or memory connector with micro SD (accessory)
- Sleep mode for long-term recording
- 2 ALMEMO<sup>®</sup> output sockets, suitable for digital interfaces, analog output, trigger input, alarm contacts, memory card
- 5 LEDs for indicating various operating states
- Key for switching on and start / stop measuring
- Complete sensor and device programming by means of AMR-Control software (included in delivery).

Precision class	AA (see page 01.04)	Operation	1 key, 5 LEDs, 2 coding switches
Measuring rate	(100), 50, 10 and 2.5 mops	Internal memory (option S)	Internal EEPROM sufficient for 100,000
Measuring inputs Electrical isolation	9 ALMEMO <sup>®</sup> input sockets with semiconductor relays (50 V)	-	measured values, configurable as linear or ring memory
for analog sensors	Additional electrical isolation between measuring inputs and power supply	External memory (accessory) ALMEMO <sup>®</sup> memory connector with micro SD card	
Additional channels	(device ground) 4 function channels, device-internal	Date and time-of-day	Real-time clock, buffered with lithium battery
Outputs	2 ALMEMO <sup>®</sup> sockets, suitable for all output modules (analog / data / trigger / relay cables, memory, etc.)	Current consumption (without input and output modules)Active modeapprox. 25 mASleep modeapprox. 0.05 mA	
		Environmental conditions a	nd general technical data

see page 01.04 onwards

ALMEMO <sup>®</sup> 8590 /8690, accessories	Order no.
Memory connector with micro SD, including USB card reader (see chapter "General accessories") DC adapter cable, 10 to 30 VDC, $12 \text{ V} / 1 \text{ A}$ , electrically isolated	ZA1904SD ZB3090UK2

ALMEMO <sup>®</sup> 8590 /8690, connecting cable	Order no.
USB data cable, electrically isolated	ZA1919DKU
V24 data cable, electrically isolated	ZA1909DK5
Ethernet data cable, electrically isolated	ZA1945DK
Analog output cable, -1.25 to +2.0 V, 0.1 mV / digit	ZA1601RK
Trigger and alarm cable (2 relays, 0.5 A, 50 V)	ZA1006EKG
Network technology, Bluetooth modules (see chapter "Networking")	

# ALMEMO<sup>®</sup> Measuring Instruments

#### ALMEMO® 8590-9



Precision measuring instrument, 9 measuring inputs

Data logger option with internal memory or external memory connector (accessory)

#### Technical data and functions

• Technical data and functions, as for ALMEMO® 8590 / 8690

### **Technical data**

Sensor power supply	Mains adapter 12 V, maximum 0.5 A	
Power supply		
Mains adapter	ZB1212NA12 100 to 240 VAC	
	to 12 VDC, 1.5 A, electrically isolated	
DC adapter cable	ZB3090UK2 10 to 30 VDC, 1 A,	
	electrically isolated	
Housing	180 x 49 x 137 mm (LxWxH)	
-	Polystyrene (PS) Weight approx. 490 g	

### ALMEMO® 8690-9A



Precision measuring instrument, 9 measuring inputs

Data logger option with internal memory or external memory connector (accessory) Runs on rechargeable batteries, charging via the device itself

#### Technical data and functions

- Technical data and functions, as for ALMEMO® 8590 / 8690
- Runs on rechargeable batteries, high-speed charging in the device itself using mains unit, included in delivery

### Technical data

Rechargeable battery pack	8 rechargeable NiMH batteries,	
	9 to 11 V, 1600 mAh	
	With intelligent high-speed charging	
	(3.5 hours)	
Sensor power supply		
Mains adapter	12 V, maximum 0.5 A	
Runs on rechargeable batt	teries 9 to 11.5 V, maximum 0.5 A	
Power supply		
Mains adapter	ZB1212NA12 100 to 240 VAC,	
-	to 12 VDC, 1.5 A	
DC adapter cable	electrically isolated ZB3090-UK2	
	10 to 30 VDC, 12 VDC, 1 A	
Housing	218 x 77 x 145 mm (LxWxH)	
-	Polystyrene (PS) Weight approx. 1.2 kg	

Options	Order no.
Internal data memory sufficient for 100,000 values	OA8590S
Multi-point adjustment, special linearization,	
management of calibration data	OA8590KL
Temperature ranges for 8 refrigerants (see 10.08)	SB0000R2
Measuring rate for 1 measuring channel, 500 mops	
(SD card required)	SA0000Q5
DIN rail mounting	OA2290HS

Mains plug assembly ZB1212NA12, operating instructions,

#### Options Order no. **OA8590S** Internal data memory sufficient for 100,000 values Multi-point adjustment, special linearization, management of calibration data **OA8590KL** SB0000R2 Temperature ranges for 8 refrigerants (see 10.08) Measuring rate for 1 measuring channel, 500 mops (SD card required) SA000005 DIN rail mounting **OA2290HS**

#### Standard delivery

Rechargeable batteries, mains plug assembly ZB1212NA12, Operating instructions, manufacturer's test certificate Precision measuring instrument ALMEMO<sup>®</sup> 8690-9A for measured data acquisition MA86909A

manufacturer's test certificate Precision measuring instrument ALMEMO® 8590-9 for measured data acquisition



Standard delivery

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Order no.

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Website : www.xintop.com

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