ALMEMO[®] Measuring Instruments

ALMEMO® 2590A



ALMEMO[®] professional measuring instrument with data logger function,

Comprehensive range of functions for all application areas, Graphics display for showing measured values and programming,

2 or 4 measuring inputs

Technical data and functions, ALMEMO[®] 2590A series

- New variant, further developed
- Good measuring accuracy, measuring rate up to 10 measuring operations per second (mops)
- Over 65 standard measuring ranges
- Support for ALMEMO[®] plugs with multi-point adjustment, special linearization, and special measuring ranges
- Graphics display with white illumination, easy and convenient operation by means of 4 soft-keys and cursor block
- · Clear and easy-to-understand menu system
- 3 measuring menus (1 menu can be freely configured by user from a range of 50 functions), measured values displayed numerically, 1 to 12 measured values can be displayed in two sizes or graphically in bar chart form.
- Intelligent sensor readings with sensor-specific functions Cold junction compensation, temperature compensation, and atmospheric pressure compensation
- Measuring functions Measured value, zero-setting, setpoint adjustment

 Function menus Maximum value, minimum value, memory sufficient for 99 measured values, average value over time / individual values / measuring points, smoothing, volume flow with center point measuring, two-point adjustment, scaling, data logger with

- configuration menus
 Option VN Volume flow determined from matrix measuring as per DIN EN 12599
- Programming menus for clear and easy-to-understand sensor programming, range, units, designation, right through to special functions, configuration of device parameters and of output modules
- Choice of languages : German, English, French (other options also available)
- 2 ALMEMO[®] output sockets, suitable for digital interfaces, analog output, trigger input, alarm contacts, memory card
- External memory connector with micro SD can simply be plugged in.
- Sleep mode for long-term recording

Technical data ALMEMO® 2590A series

Precision class	A (see page 01.05)	Power supply	
Measuring rate	2.5 / 10 measuring operations per second	Battery set	3 AA alkaline batteries
Additional channels	4 function channels, device-internal	Mains adapter ZA1312NA7 230 VAC to 12 VDC, 1 A electrically isolated	
Sensor power supply	6 / 9 / 12 V, maximum 0.5 A		electrically isolated
Outputs	2 ALMEMO [®] sockets, suitable for all	DC adapter cable, electrically isolated ZA2690-UK 10 to 30 V, 0.25 A	
	output modules (analog / data / trigger / relay cables, memory, etc.)	Current consumption (without input and output modules) Active mode approx. 12mA	
Standard equipment	dard equipment		approx. 32 mA
Display	Graphics display, 128 x 64 pixels, 8 rows	Sleep mode	approx. 0.05 mA
Keypad	Illumination 2 white LEDs 7 silicone keys (of which 4 soft-keys)	Housing	127 x 83 x 42 mm (LxWxH) ABS (maximum 70 °C) 290 g
Date and time-of-day	Real-time clock, buffered by battery		· · · · ·

ALMEMO[®] Measuring Instruments

Serie ALMEMO® 2590A

Accessories	Order no.
Memory connector with micro SD (see page 06.02)	ZA1904SD
Mains adapter 12 V / 1 A	ZA1312NA7
DC adapter cable, 10 to 30 VDC, 12 V / 0.25 A, electrically isolated	ZA2690UK
Rubberized impact protection, green	ZB2490GS1
Magnetic fastening	ZB2490MH
DIN rail mounting	ZB2490HS
Instrument case	ZB2490TK2
Network technology, Bluetooth modules (see chapter "Networking")	
Connecting cables	Order no.
USB data cable, electrically isolated	ZA1919DKU
Ethernet data cable, electrically isolated	ZA1945DK
Analog output cable, -1.25 to +2.0 V, 0.1 mV / digit	ZA1601RK

Analog output cable, -1.25 to +2.0 V, 0.1 mV / digit V24 data cable, electrically isolated. Network technology, Bluetooth modules (see chapter "Networking")



ZA1909DK5

ALMEMO[®] Measuring Instruments

ALMEMO[®] 2590-2A



Professional measuring instrument, 2 measuring inputs, Data logger with external memory connector (accessory)

Technical data and functions

 Technical data and functions as for ALMEMO[®] 2590A series

Technical data

Measuring inputs 2 ALMEMO [®] input sockets, el. isol., with semicond. relays (50V	
ci. isol., with semicond. relays (50	⁷)

Option	Order no.
Volume flow determined from matrix measuring as per DIN EN 12599 Temperature ranges for 8 refrigerants Measuring instrument IP54	OA2590VN SB0000R2
(if water-proof plugs are used)	OA2590W
Standard delivery	Order no.
Measuring instrument, batteries, operating instrument manufacturer's test certificate Professional measuring instrument	uctions,
ALMEMO [®] 2590-2A	MA25902A

ALMEMO[®] 2590-4AS



Professional measuring instrument, 4 measuring inputs, Data logger with internal memory or external memory connector

Technical data and functions

- Technical data and functions, as for ALMEMO[®] 2590A series
- Internal EEPROM sufficient for 100 000 measured values, configurable as linear or ring memory

Technical data

Technical data as for Serie ALMEMO [®] 2590A series		
Measuring inputs 4 ALMEMO [®] input sockets,		
	el. isol., with semicond. relays (50V)	
Memory, internal EEPR	ROM sufficient for 100,000 measured values	

Option	Order no.
Volume flow determined from matrix measurin as per DIN EN 12599	og OA2590VN
Temperature ranges for 8 refrigerants	SB0000R2
Measuring instrument IP54 (if water-proof plugs are used))	OA2590W
Standard delivery	Order no.
Measuring instrument, batteries, operating manufacturer's test certificate.	g instructions,

Professional measuring instrument ALMEMO[®] 2590-4AS

MA25904AS

Measuring instrument, batteries, rubberized impact protection ZB2490GS1, Mains unit ZA1312NA7, USB data cable ZA1919DKU, Case ZB2490TK2, Operating instructions, manufacturer's test certificate

Professional measuring instrument ALMEMO® 2590-4AS Case set MA25904ASKSU

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.



Humidity reading with further humidity variables, e.g. temperature, dew point, mixture ratio



Overview of all sensors connected



Temperature / humidity display in bar chart form



pH reading, measured value with automatic temperature compensation



Flow reading, measured value with automatic temperature compensation and atmospheric pressure compensation

FUNCTION-MENUS: Max-Min, SingleDataMemory Averaging Two Point sensor adjustment Scaling Datalogger
In the second secon

Function menus