

ALMEMO® 4390-2



ALMEMO® precision measuring instrument in fitted panel design with data logger function. Comprehensive range of functions for all application areas. Increased measuring accuracy, fast measuring rate, 1 measuring input, 2 limit value relays, integrated. Option with double analog output.

Technical data and functions

- 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 400 mops
- 1 ALMEMO® input socket, suitable for all ALMEMO® sensors or 6-contact clamp connector socket, also for 26 V and 20 mA
- More than 65 standard measuring ranges
- Support for ALMEMO® plugs with multi-point adjustment, special linearization, and special measuring ranges
- Higher measuring quality thanks to electrical isolation between measuring inputs and device power supply (device ground)
- Data logger with internal EEPROM, sufficient for 16,000 measured values, configurable as linear or ring memory
- Memory connector with micro SD (accessory)
- As standard 2 limit value relays can also be driven via interface
- Option with double analog output can also be driven via interface
- 2 ALMEMO® output sockets, suitable for digital interfaces, analog output, trigger input, alarm contacts, memory card
- 8-character alphanumeric 14-segment display
- Programming functions displayed in normal text (3 languages)
- 5 programming menus: Measuring function, memory, sensor, device, output
- Measuring functions: Measured value, dual display, smoothing, zero-setting, setpoint adjustment, maximum / minimum / average values, temperature compensation, atmospheric pressure compensation
- Sensor programming: Measuring range, measured value correction, scaling, units, limit value monitoring, graduated locking of functions, scaling of analog output
- Device programming: Conversion rate, real-time clock with date, output cycle, baud rate, choice of languages

Technical data

Precision class	AA (see page 01.04)	0.0 to 10.0 V	0.5 mV / digit, load >100 kilohms
Measuring rate	(100), 50, 10 and 2.5 mops	0.0 to 20.0 mA	0.1 mA / digit, load <500 ohms
Measuring inputs	1 ALMEMO® input socket, suitable for all ALMEMO® sensors or 6-contact screw connector with input for 26 V (integrated divider) or 20 mA (integrated shunt)	Accuracy	±0.1 % of measured value ±0.1 % of final value
Accuracy	Divider / shunt ±0.1 % of measured value	Temperature drift	10 ppm / K
Channels	4 channels for double sensors and function channels	Time constant	100 µs
Electrical isolation for analog sensors	between measuring input and power supply (device ground)	Standard equipment	
Sensor power supply	12 V / 0.1 A; 9 V / 0.15 A; 6 V / 0.2 A	Display	8-character 14-segment LED display
Outputs	2 ALMEMO® sockets, suitable for all output modules (analog / data / trigger / relay cables, memory, etc.)	Keypad	5 membrane keys
2 limit value relays	Mechanical changeover, 230 V, 2 A	Date and time-of-day	Real-time clock, buffered with battery
Option with double analog output	10 V or 20 mA (programmable) 16-bit DAC, electrically isolated	Memory, internal EEPROM	sufficient for 16,000 measured values
		Power supply	
		Mains operation	90 to 250 VAC, 50 / 60 Hz
		Option U	10 to 30 V, 0.5 A, electrically isolated
		Housing	Standard plastic housing 96 x 48 x 132 mm (WxHxD)
		Panel opening	90 x 42.5 mm
		Environmental conditions and general technical data	see page 01.04 onwards

Accessories

Memory connector with micro SD, including USB card reader (see chapter „Output modules“)	Order no. ZA1904SD
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Options

Measuring rate 400 mops (SD card required)	Order no. SA0000Q4
Power supply 10 to 30 VDC, electrically isolated	OA4390U
2 analog outputs (common ground), electrically isolated 10 V or 20 mA (programmable)	OA4390R02
Temperature ranges for 8 refrigerants	SB0000R2

Standard delivery

Operating instructions, manufacturer's test certificate, Precision measuring instrument ALMEMO® 4390-2	Order no. MA43902
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幸託有限公司
XIN TOP CORPORATION

TEL : (02)2598-1199
FAX : (02)2596-2331

E-mail : info@xintop.com
Website : www.xintop.com