ALMEMO[®] Measuring Instruments

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,
- 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

Order no.

Technical data

| Precision class | AA (see page 01.04) | Option with double analog | g output 10 V or 20 mA (programmable) |
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| Measuring rate | (100), 50, 10 and 2.5 mops | 0.0.4 10.0.17 | 16-bit DAC, electrically isolated |
| Measuring inputs 1 ALMEMO [®] input so suitable for all ALME or 6-contact screw com | 1 ALMEMO [®] input socket, suitable for all ALMEMO [®] sensors or 6-contact screw connector with input | 0.0 to 10.0 V 0.0 to 20.0 mA Accuracy | 0.5 mV / digit, load >100 kilohms 0.1 mA / digit, load <500 ohms ±0.1 % of measured value ±0.1 % of final value |
| Accuracy | for 26 V (integrated divider) or 20 mA (integrated shunt) Divider / shunt ±0.1 % of measured value | Temperature drift Time constant | 10 ppm / K 100 μs |
| Channels | 4 channels for double sensors and function channels | Standard equipment Display | 8-character 14-segment LED display |
| Electrical isolation for a | | Keypad Date and time-of-day Memory, internal EEPRC | 5 membrane keys Real-time clock, buffered with battery DM sufficient for 16,000 measured values |
| Sensor power supply | 12 V / 0.1 A; 9 V / 0.15 A; 6 V / 0.2 A | Power supply | |
| Outputs | 2 ALMEMO [®] sockets, suitable for all output modules (analog / data / trigger / | Mains operation Option U | 90 to 250 VAC, 50 / 60 Hz 10 to 30 V, 0.5 A, electrically isolated |
| 2 limit value relays | relay cables, memory, etc.) Mechanical changeover, 230 V, 2 A | Housing Panel opening | Standard plastic housing 96 x 48 x 132 mm (WxHxD) 90 x 42.5 mm |

Accessories

| Memory connector with micro SD, including USB card reader (see chapter "Output modules") | ZA1904SD |
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| Options | Order no. |
| Measuring rate 400 mops (SD card required) | 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 | Order no. |
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| Operating instructions, manufacturer's test certificate, Precision measuring instrument ALMEMO® 4390-2 | MA43902 |

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.