Reference Measuring Instruments



ALMEMO[®] 1033-2



Reference measuring instrument for temperature. High-precision measuring with Pt100 sensors Resolution 0.001 K *new:* Measuring range up to 720 °C with highest resolution 1 mK

Technical data and functions

- *new*: Extended measuring range up to 720 °C with highest resolution 1 mK.
- *new:* Function expansion as standard. The 4 sensor-specific parameters R0 and A, B, C of the CvD equation (Callendar-van-Dusen equation) for any Pt100 sensor can be programmed by the user.
- Temperature measurement with very high resolution, precision, and linearity, using Pt100 sensors
- Suitable as reference device in calibration laboratories and quality assurance procedures
- Very high accuracy thanks to multi-point adjustment of the Pt100 temperature sensor
- 2 electrically isolated measuring inputs for Pt100 sensors
- Resolution : 0.001 K, Units : °C, °F, K
- High-resolution A/D converter, delta-sigma, 24-bit, 1.25 mops (measuring operations per second)

- Two output sockets for digital interface, ALMEMO[®] memory connector
- Compact, modern, ergonomic design
- Graphics display, illuminated with white light
- Easy and convenient to operate by means of 4 soft-keys and cursor block
- Measured value display 2 measured values and differential
- Measuring functions: Zero-setting, smoothing, maximum / minimum values, individual value memory for 100 values
- Data logger with ALMEMO[®] memory connector (accessory)
- Sensor programming: Smoothing, designation, units, resolution, multi-point adjustment
- Device configuration: Illumination, contrast, device address, baud rate
- Choice of language: German, English, French

Technical data ALMEMO[®] 1033-2

Measuring inputs	2 ALMEMO [®] input sockets for Pt100 sensors	Standard equipment Display	Graphics display, 128 x 64 pixels, 8 rows
Electrical isolation A/D converter Measuring range P314 : Pt100, -200	Semiconductor relay (50 V) Delta-sigma, 24-bit, 2.5 mops to +720 °C resolution 0.001 K	Illumination Keypad Date and time-of-day	2 white LEDs 7 silicone keys (of which 4 soft-keys)
Measuring current Accuracy P314 : ±0.010 K ±	to +850 °C resolution 0.01 K 1 mA 1 digit in range -100 to +720 °C digit in range -100 to +850 °C 23 °C ±2 K, < 90 % r.H., battery mode typical 2 ppm / K	Power supply Battery set Mains adapter Current consumption (w With illumination	3 AA alkaline batteries ZA1312NA10 100 to 230 VAC to 12 VDC, 2 A, electrically isolated ithout input and output modules) approx. 20 mA approx. 40 mA
Outputs	2 ALMEMO [®] sockets for interface cable and ALMEMO [®] memory connector	Housing	127 x 83 x 42 mm (LxWxH) ABS, 290 g

Accessories

Input connectors	Order no.	Software WinControl for data acquisition for 1 device up to 20 channels USB data cable, electrically isolated Ethernet data cable ALMEMO [®] memory connector with mic
ALMEMO [®] input connector up to 720 °C, resolution 0.001 K (range P314) ALMEMO [®] input connector up to 850 °C, resolution 0,01 K (range P214)	ZA9030FS7P3 ZA9030FS2P3	Mains adapter 12V, 2A with ALMEMO [®] c Rubberized impact protection, gray DIN rail mounting Instrument case

Lieferumfang

Reference measuring instrument for temperature up to 720 °C. Batteries, operating instructions, manufacturer's test certificate, .

Order no.

Order no.

SW5600WC1 ZA1919DKU ZA1945DK ZA1904SD ZA1312NA10 ZB2490GS2 ZB2490HS ZB2490TK2

MA10332