

PRODUCT CATALOG

Measuring instruments
and sensors

2025



Reference measuring instrument ALMEMO® 1030-2



ALMEMO® Reference measuring instrument for temperature.
High-precision measuring with Pt100 sensors
Resolution 0.001 K

Technical features

- 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
- Device configuration: Illumination, contrast, device address, baud rate
- Choice of language: German, English, French

Technical data ALMEMO® 1030-2

Measuring inputs		2 ALMEMO® input sockets for Pt100 sensors	Standard equipment	
Electrical isolation		Semiconductor relay (50 V)	Display	Graphics display, 128 x 64 pixels, 8 rows
A/D converter		Delta-sigma, 24-bit, 1.25 mops	Illumination	2 white LEDs
Measuring range		Pt100, -200 to +400 °C	Keypad	7 silicone keys (of which 4 soft-keys)
Resolution		0.001 K or 0.01 K	Date and time-of-day	Real-time clock, buffered by device battery
Measuring current		1 mA	Individual value memory, internal	100 measured values
Measuring method		ratiometric	Power supply	
Accuracy		±0.010 K ±1 digit in range -50 to +400 °C	Battery set	3 AA alkaline batteries
Nominal conditions		23 °C ±2 K, < 90 % r.H., battery mode	Mains adapter	ZA1312NA12 100 to 230 VAC to 12 VDC, 1.5 A, electrically isolated
Temperature drift		typical 2 ppm / K	Current consumption (without input and output modules)	approx. 20 mA
Outputs		2 ALMEMO® sockets for interface cable and ALMEMO® memory connector	With illumination	approx. 40 mA
			Housing	127 x 83 x 42 mm (LxWxH) ABS, 290 g
			Ambient conditions see general technical specifications	

Accessories

Ethernet data cable	ZA1945DK
ALMEMO® memory connector with micro SD	ZA1904SD
Rubberized impact protection, gray	ZB2490GS2
DIN rail mounting	ZB2490HS
Aluminum profile case for 1 sensor (up to 500 mm in length)	ZB9000TK1

Set with precision resistance temperature detector Pt100



Pt100-temperature sensor FPA923L0250

Technical data FPA923L0250

Measuring element	Pt100 wire-wound	Nominal length	250 mm
Class	1/10 B (DIN EN 60751) at 0 °C	Sensor tube	Stainless steel, diameter 3 mm
Measuring tip	Operative range -50 to +400 °C	Connecting cable	2 meters, FEP / silicone
Response time T ₉₀	5 seconds	ALMEMO® plug	ZA9030FS7P3, resolution 0.001 K

Options

Order no.

Added functions for ALMEMO® 1030 and 1036:

- 1. Extension of the measurement range with resolution 0.001 K (P314): -200...560 °C.
- 2. New measurement range with resolution 0.01 K (P214): -200...850 °C.
- 3. The 4 sensor specific parameters R0 and A, B, C of the Callendar–Van Dusen equation can be programmed for Pt100 sensors by the user.

OA1030FE

Standard delivery

Order no.

Reference measuring instrument for temperature measurement with accessories, evaluation software, and Pt100 temperature sensor. Complete set including DAkkS calibration certificate:

Reference measuring instrument ALMEMO® 1030-2 including 3 AA alkaline batteries, Desktop mains unit ZA1312NA12, USB data cable ZA1919DKU, Instrument case, evaluation software ALMEMO® View SW5500AV (see chapter software) and Pt100 temperature sensor FPA923L0250 with DAkkS calibration certificate (2 temperature points at 0 and 100 °C, including adjustment)

SP10302D

Accessories

Precision resistance temperature sensor Pt100 FPA924L0500H for the operating range -100 ... +660 °C



! To achieve high precision, it is absolutely necessary to calibrate the electrode incl. multi-point adjustment! Please order additionally!

On request: Precision resistance temperature sensor Pt100 for the application range -200 ... +250 °C

Technical data FPA924L0500H

Measuring element:	Pt100 resistor, according to ITS90	Handle:	up to 60 °C
Measuring tip:	Application range -100 ... +660 °C	Connection cable:	2 m cable
Sensor tube:	stainless steel, diameter 4 mm		in PTFE/fiberglass protection hose.
Nominal length:	465 mm (visible)	ALMEMO® connector:	ZA9030FS7P3, resolution 0.001 K

Standard delivery

Order no.

Precision resistance temperature probe for the application range -100 ... +660 °C

Measuring element Pt100, class B, probe diameter 4 mm, length 465 mm, with handle, 2 m cable and ALMEMO® connector for ALMEMO® 1030, 1033, 1036, 8036, storage case

FPA924L0500H



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