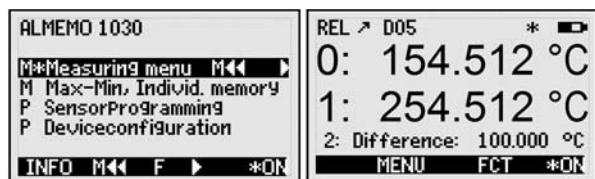


High-precision temperature measuring instrument ALMEMO® 1030-2 Using Pt100 sensors, resolution 0.001 K



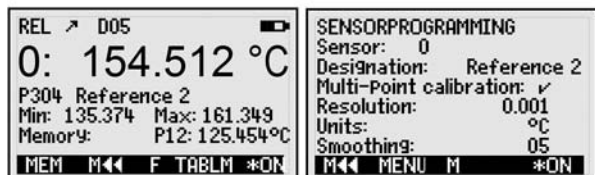
Technical features

- ▶ Temperature measurement with very high resolution, precision, and linearity
- ▶ Suitable as reference device in calibration laboratories and quality assurance procedures
- ▶ Compact modern, ergonomic design
- ▶ Protection IP54
- ▶ 2 electrically isolated input sockets for Pt100 sensors
- ▶ Resolution can be set at 0.001 or 0.01 K.
- ▶ Units °C, °F, K
- ▶ High-resolution A/D converter, delta-sigma, 24-bit, 2.5 mops
- ▶ 2 output sockets for digital interface, ALMEMO® memory connector
- ▶ Illuminated white graphics display
- ▶ Easy and convenient to operate by means of 4 soft-keys and cursor block
- ▶ Measuring menu : 2 measured values and differential
- ▶ Measuring functions : Zero-setting, smoothing
- ▶ Calibration with multi-point adjustment in the ALMEMO® connector ensures the highest possible accuracy.
- ▶ Functions menu : Maximum / minimum values, individual value memory for 100 values
- ▶ Data logger with ALMEMO® memory connector (Accessories)
- ▶ Sensor programming : Units, resolution, smoothing, designation
- ▶ Device configuration : Device designation, contrast, illumination period, baud rate
- ▶ Choice of language : German, English, French



Menu selection

Measuring menu



Functions menu

Sensor programming

Technical data

ALMEMO® 1030-2

Measuring inputs	2 ALMEMO® input sockets For Pt100 sensors Semiconductor relay (50 V) delta-sigma, 24-bit, 2.5 mops Pt100, -200 to +400 °C Resolution 0.001 K or 0.01 K Measuring current 1 mA Self-calibration Zero-point, measuring current Accuracy 0.01 % of meas. value ±3 digits Temperature drift 0.003% / °C
Outputs	2 ALMEMO® sockets for interface cable and ALMEMO® memory connector
Standard equipment	
Display	Graphics display, 128 x 64 dots, 8 rows Illumination 2 white LEDs
Keypad	7 silicone keys (of which 4 softkeys)
Date and time-of-day	Real-time clock buffered with device battery
Values memory, internal	100 measured values
Voltage supply	
Battery set	3 AA alkaline batteries
Mains adapter	ZA1312NA8 230 VAC to 12 VDC, 1 A electrically isolated
Current consumption (without i / o modules)	approx. 20 mA with illumination approx. 55 mA
Housing	(LxWxH) 127 x 83 x 42 mm ABS (maximum 70 °C), 290 g
Pt100 temperature sensor FPA923L0250	
Measuring element	Pt100 as per DIN EN 60751
Class	1/10 B (DIN EN 60751) at 0 °C
Measuring tip	Operative range -50 to +400 °C
Response time T ₉₀	5 seconds
Nominal length	250 mm
Shaft	Stainless steel, diameter 3 mm
Connection cable	2 meters, Teflon / silicone
ALMEMO® connector	Resolution 0.001 K



Pt100 temperature sensor FPA923L0250

Accessories

Ethernet data cable	Order no. ZA1945DK
ALMEMO® connector with micro-SD	Order no. ZA1904SD
Rubberized impact protection, gray	Order no. ZB2490GS2
DIN top hat rail mounting	Order no. ZB2490HS

Variants

High-precision temperature measuring instrument with accessories, evaluation software, and Pt100 temperature sensor Complete set including DKD calibration certificate

ALMEMO® 1030-2 measuring instrument including 3 AA alkaline batteries, connector mains unit ZA1312NA8, USB data cable ZA1919DKU, instrument case, and evaluation software ALMEMO View SW5500AV (see page 06.16), and Pt100 temperature sensor FPA923L0250 including DKD calibration certificate (2 temperature points at 0 and 100 °C and adjustment)

Order no. SP10302D

01/2011 We reserve the right to make technical changes.