



designed for scientists



PT wireless Wireless Sensor

/// Data Sheet

Precise temperature and pH measurement

PT Wireless is the consistent solution for digital, wireless temperature and pH measurement in the laboratory. As an intelligent, wireless sensor, it reliably transmits measured values to compatible IKA devices and software solutions – ensuring maximum flexibility and seamless integration into modern laboratory workflows.

PT Wireless measures temperature and pH values and transmits them wirelessly or, alternatively, via USB-C to IKA magnetic stirrers (latest-generation RCT basic and RET basic), EUROSTAR control (latest generation), the laboratory



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software LWS, and directly to the IKA App. Using the app, measured values can be displayed in real time – without the need for an additional display or operating element on the sensor itself.

Both temperature and pH values can be calibrated directly via the app, ensuring simple, precise and reproducible adjustment to laboratory requirements.

pH measurement is performed by connecting a pH electrode directly to the integrated BNC interface, eliminating the need for an external pH meter.

With a battery life of up to 150 hours, a robust design with IP54 protection class, and exchangeable temperature probes, Pt.Wireless is designed for continuous laboratory operation. Compatibility with labworldsoft® lab software additionally enables centralized data acquisition and supports transparent, reproducible processes.

To further increase operational safety, PT Wireless features a multi-level battery status warning via the integrated LED indicator.

When the remaining operating time falls below 70 hours, the LED provides a visual indication that safe operation over a weekend can no longer be ensured.

At a critical remaining operating time of approximately 20 hours (below the level for safe overnight operation), the LED changes to a slowly blinking yellow warning signal, clearly indicating a low battery status.

Compatible with devices from the new series: RET basic, Eurostar control, RCT basic (wired, or wireless with USB WD)

Technical Data

Temperature measuring range min. (with H62 sensor) [°C]	-20
Temperature measuring range max. (with H62 sensor) [°C]	400
Temperature measurement resolution [K]	0.1
Accuracy of temperature measurement [K]	±0.2 + tolerance PT1000 (DIN IEC 751 Class A)
pH measurement	yes / BNC socket female
pH measuring range [pH]	0 - 14
Accuracy of pH measurement [pH]	±0.1
pH measurement resolution [pH]	0.01
Battery capacity [mAh]	700
Immersion depth min. [mm]	20
Touch function	yes
Warning function acoustic	yes
Rechargeable battery	yes
Perm. duration of operation (battery)	max. 150 h
Battery charging time	50% at 60 Minutes; 75% at 90 Minutes
Battery charging current max. [mA]	500
Changeable temperature sensor	H62.51
Status LED	yes
Sensor type	PT1000 (DIN IEC 751 Class A)
Communication distance (depend on building) max. [m]	15
Dimensions (W x H x D) [mm]	30 x 38 x 380
Weight [kg]	0.09
Permissible ambient temperature [°C]	5 - 40
Permissible relative humidity [%]	80
Protection class according to DIN EN 60529	IP 54
USB interface	USB-C
WPAN interface	yes
DC Voltage [V=]	5