IKA

designed for scientists

ETS-D5 Electronic contact thermometer

/// Fiche technique

ETS-D5 Electronic Contact Thermometer

The new dimension in temperature control in the laboratory

The new ETS-D5 electronic contact thermometer redefines precision, safety, and ease of use. Developed for demanding laboratory processes, it offers everything you need for reliable temperature control — and now with even more functions for maximum process reliability and flexibility.

IKA

designed for scientists

Proven strengths
- Temperature range from –50☐°C to +400☐°C with 0.1☐K resolution
- High accuracy: ±0.2☐K + PT1000 sensor tolerance (class A)
- Optimized PID control for stable temperature control without overshoot
- Automatic shutdown of the magnetic stirrer in case of sensor error or exceeding the defined safety temperature – maximum process reliability
- Replaceable temperature sensor (optionally with coating H66.53 or made of glass H66.51)
- Can be extended with an intermediate cable

New and improved

Integrated safety features:
- Sensor timeout – detects when the sensor is not in the medium (adjustable)
- Temperature drop detection – reacts to unexpected temperature drops (adjustable)
- Setpoint monitoring (Delta T) – switches off temperature control when the setpoint is exceeded by Delta T
- Setpoint limitation – limits the maximum adjustable temperature
- Safe temp – switches off the temperature control when the value is exceeded
- In the event of a fault, the stirrer remains off – for maximum safety

Three temperature control modes for every application:
- Fast – fast heating
- Precise – maximum accuracy
- Synthesis block optimized – perfect for chemical syntheses

- Adjustable heating speed in percent for sensitive samples
- Convenient touch display for intuitive operation
- USB-C interface for fast and easy data transfer to a PC

What is an electronic contact thermometer?
An electronic contact thermometer is a temperature controller with an integrated sensor that directly controls the heating power of a magnetic stirrer. When connected, the device takes over the active temperature control of the medium by switching the heating plate on and off accordingly. The magnetic stirrer itself continues to monitor the preset safety limits for the heating plate.

Advantages in combination with magnetic stirrers
- Upgrade option for devices without integrated external temperature control
- Additional safety circuit for the medium temperature – crucial for risk analyses
- Better display resolution and data transfer to software
- Clear assignment of the measuring point – minimizes mix-ups

Greater safety, greater precision – now also wireless

IKA

designed for scientists

The new ETS-D5 is more than just a temperature sensor – it is an intelligent safety and control center for your laboratory. With state-of-the-art interface technology, advanced safety features, and optimized control, it offers maximum control and protection for your processes. Greater precision. Greater safety. Greater comfort.

IKA

designed for scientists

Données techniques

Plage de mesure de température min. (H62 sensor) [°C]	-20
Plage de mesure de température max. (H62 sensor) [°C]	400
Résolution de réglage de thermométrie [K]	0.1
Précision de la mesure [K]	±0.2 + tolérance PT1000 (DIN IEC 751 classe A)
Précision de réglage de la température de chauffage [K]	0.1
Affichage	TFT
Profondeur d'immersion min. [mm]	20
Fonction " touch"	oui
Avertissement accoustique	oui
Heat control accuracy (500ml H2O in 600ml beaker, 40mm stirring bar, 600rpm, 50°C) [K]	±0.5
Changeable temperature sensor	H62.51
Thermometer connector type (to main device)	DIN 45322 (MAS6)
Status LED	oui
Temperature operating mode	A,B,C,D
Temperature control mode	Price,Fast,Block
type de capteur	PT1000 (DIN IEC 751 Class A)
Dimensions (L x H x P) [mm]	52 x 36 x 385
Poids [kg]	0.156
Plage de température du milieu admise [°C]	5 - 40
Humidité relative admissible [%]	80
Protection selon DIN EN 60529	IP 54
Interface numérique USB	USB-C
Tension continue [V=]	8 - 16
Consommation électrique max. [mA]	100