

Operating Manual For Digital Quick Response Thermometer

GTH 1170



Specification

Measuring range:	-65.0 ..+199.9°C, resolution 0.1°C	resp. -85.0 ... +199.9°F, resolution 0.1°F
	-65 .. +1150°C, resolution 1°C	resp. -85 ... +1999°F, resolution 1°F
Precision: (±1 Digit)	-65.0°C ..+199.9°C: ±0.05% of meas. value ±0.2% full scale	
(at nominal temperature = 25°C)	-65°C ... +1150°C: ±0.1% of meas. value ±0.2% full scale	
Temperature drift:	0.01%/K	
Point of comparison:	±0.3 °C	
Probe connection:	standard flat-pin plug suitable for all NiCr-Ni (type K) probes	
Offset- and Scale:	digital offset and scale adjustment via menu setting	
Measuring frequency:	3 measurings per second	
Display:	approx. 13 mm high, 3½-digit LCD	
Operation elements:	3 keys for ON/OFF, min-/max-value display, hold	
Min-/Max-value memory:	Min and max measured value are stored	
Hold key:	the current measuring will be „frozen“	
Operating conditions:	-25 to 50°C; 0 to 80 %RH (non-condensing)	
Storage temperature:	-25 to 70°C	
Power supply:	9V battery type IEC 6F22 (in scope of supply)	
Power consumption:	approx. 150µA	
Low battery warning:	"BAT" automatically displayed if battery is low	
Auto off function:	when the Auto Off Function is activated, the device switches automatically off, if keypad is not attended for a longer time (selectable 1..120 min).	
Housing:	impact resistant ABS-housing: approx.106 x 67 x 30 mm	
Weight:	approx. 135 g incl. battery	
EMC:	The device corresponds to the essential protection ratings established in the Regulations of the Council for the Approximation of Legislation for the member countries regarding electromagnetic compatibility (2004/108/EG). Additional fault: <1%	



Safety instructions:

This device has been designed and tested in accordance to the safety regulations for electronic devices. However, its trouble-free operation and reliability cannot be guaranteed unless the standard safety measures and special safety advises given in this manual will be adhered to when using it.

- Trouble-free operation and reliability of the device can only be guaranteed if it is not subjected to any other climatic conditions than those stated under "Specification".
If the device is transported from a cold to a warm environment condensation may result in a failure of the function. In such a case make sure the device temperature has adjusted to the ambient temperature before trying a new start-up.
- If device is to be connected to other devices the circuitry has to be designed most carefully. Internal connection in third party devices (e.g. connection GND and earth) may result in not-permissible voltages impairing or destroying the device or another device connected.
- If there is a risk whatsoever involved in running it, the device has to be switched off immediately and to be marked accordingly to avoid re-starting. Operator safety may be a risk if:
 - there is visible damage to the device
 - the device is not working as specified
 - the device has been stored under unsuitable conditions
 In case of doubt, please return device to manufacturer for repair or maintenance.
- Warning:** Do not use this product as safety or emergency stop devices or in any other application where failure of the product could result in personal injury or material damage.
Failure to comply with these instructions could result in death or serious injury and material damage.
- The battery has to be taken out, when storing device above 50°C.
It is recommended to take the battery out, when storing device for a longer period of time.

Disposal notes

This device must not be disposed as 'residual waste'. To dispose this device, please send it directly to us (adequately stamped). We will dispose it appropriately and environmentally friendly.

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GREISINGER electronic GmbH
D - 93128 Regenstauf, Hans-Sachs-Straße 26

+49 (0) 9402 / 9383-0 ☎ +49 (0) 9402 / 9383-33 ✉ info@greisinger.de

