

# *DT-31 user manual*

*Precise thermocouple digital thermometer*



**Thermometer DT-31** is intended for temperature measurements in ranges  $-200^{\circ}\text{C}$  to  $+1400^{\circ}\text{C}$  depending on external probe. It is equipped with a thermocouple mini socket. The device may be used to measure the temperature during the storage and transport of vaccines, medicine, and food, as well as production and warehousing, etc.

### Temperature measurement

The current temperature appears on the screen once it is turned on. To turn it on or off press the ON/OFF button.

### Battery change

When the battery is close to discharge, an „LOBAT” icon will appear on the screen. Its recommended to change battery as fast as the icon pops up. To change the battery remove two screws located on the back and pry the battery cover off, then replace the battery.

### HOLD, MIN, and MAX functions.

The HOLD function enables to freeze the measured value and keeps it on display until the function is turned off. To use it, press the MIN/MAX button.

The MIN and MAX functions enable to display the highest and lowest measured temperature values from the moment the device has been turned on.

To check the MIN value press the MIN/MAX button twice, and three times for the MAX value. It will be visible on the left side of the display.

### Calibration

DT-31 thermometer is calibrated using the reference thermometer DTI 1000, serial number 008954-01159, manufactured by Ametek Jofra Instruments, with a declaration of conformity to European Union standards. We declare that the DT-31 thermometer has been

manufactured in accordance with the following standards:

Directive 2006/42/EC  
Directive 2014/35/EU  
Directive 2014/30/EU  
PN-EN ISO 12100:2012  
PN-EN ISO 13857:2010  
PN-EN 349+A1:2010  
EN60335-1:2012  
EN60335-2-40:2004/A2:2009  
PN-EN 55014-1:2017-06  
PN-EN 13486:2004



## WARRANTY CARD

It is necessary to present the following card  
for warranty repairs.

.....  
SERIAL NUMBER

.....  
TECHNICAL INSPECTION

.....  
DATE OF SALE

.....  
STAMP AND SIGNATURE



## Temperature probes

Device is equipped with mini socket which allows plugging in different types of probes which are equipped with mini plug. Termoprodukt company offers matching types of probes which are listed below. Use qr code to visit our site and learn more.

- ST-01K (-50°C to 250°C) probe length 120mm
- ST-16 (-30°C to 180°C) probe length 120mm
- ST-17 (-76°C to 260°C) probe length 135mm
- ST-20 (-100°C to 200°C) probe length 120mm
- ST-K (-200°C to 800°C) probe length 300mm



Parameter	DT-31
Measurement Range	-200°C to 1400°C
Measurement Resolution	from -200° C to +1000° C: 0.1 ° C; 1° C outside
Accuracy	with ST-01 K probe: -/+0.6°C or better in range from 0°C to 200°C
Measuring Frequency	2 measurements per second
Battery Life	approximately 2000 hours
Power Supply	1x lithium battery 3.6V (1 / 2AA) included
Case Dimensions	45 mm × 100 mm × 19 mm
Display	LCD
Case Protection Rating	IP65