



HAND-HELD THERMOMETER MS2012T v 5.22



USER MANUAL

PLOVDIV 2020

I. TECHNICAL DATA

Inputs	1
Thermoresistor	Pt.100, Pt.1000
Thermocouple	Type J, K, S, B
Other	By order
Accuracy	
Measurement accuracy	± 0,15 % FS
Indication and keyboard	
Display	LCD 3 ½
Keyboard	semi-sensor
Power supply	
Supply voltage 3V DC	AAA 1,5V X 2
Operating conditions	
Temperature	0 ÷ 50 °C
Relative humidity	< 85 % rh
Dimensions	
Overall dimensions (WxHxL)	100 x 65 x 25 mm
Weight	max 200 g
Protection	IP40
Probe	
Housing	Probe with handle
Coupling	PC-4
Storage	
Storage temperature	-10 ÷ 70 °C
Storage relative humidity	0 ÷ 95 % rh
Versions: MS2000 / 12CH2 with 9V battery; after VII.2009 replaced by MS2000 / 12CH2 v2.0, power = 3V, when exiting the parameters menu - display v20; V2.1 - MS2012 with CH1 + CH2 display capability; V2.2 user and service part in PARAMETERS, default function. The version of the device after 2.0 is visible at the exit of PARAMETERS.	

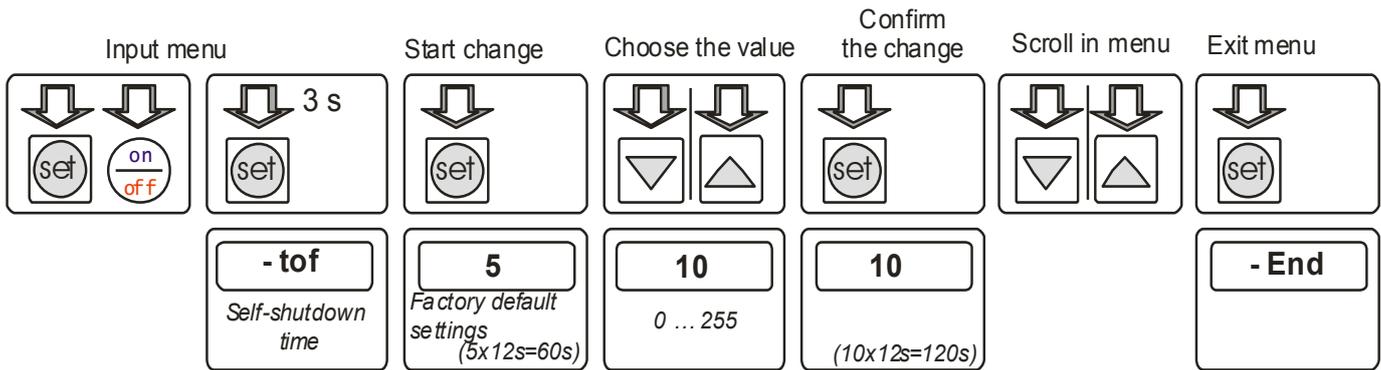
Probe	Range	Accuracy
RTD Pt1000	-50.0 ÷ 150.0 °C	± 0.3 °C
	0.0 ÷ 200.0 °C	± 0.3 °C
	0 ÷ 400 °C	± 0.6 °C
RTD Pt100	-50.0 ÷ 150.0 °C	± 0.3 °C
	0.0 ÷ 200.0 °C	± 0.3 °C
	0 ÷ 400 °C	± 0.6 °C
Thermocouple type J	-50 ÷ 600 °C	± 0.3 °C
Thermocouple type K	0 ÷ 1200 °C	± 1.8 °C
Thermocouple type S	0 ÷ 1300 °C	± 2.0 °C
Thermocouple type B	0 ÷ 1600 °C	± 2.4 °C

II. DESCRIPTION

MS2012T is a portable temperature measuring device. Available in variants with RTD sensor or thermocouple. When measuring temperature with a thermocouple sensor, an automatic temperature correction of the reading is made. The built-in parameter system maximizes battery life and adapts to the specific application.

The device is switched on and off with the On / Off button. A self-shutdown function is provided to preserve battery life.

“ Self-shutdown time” parameter changing according to the scheme:

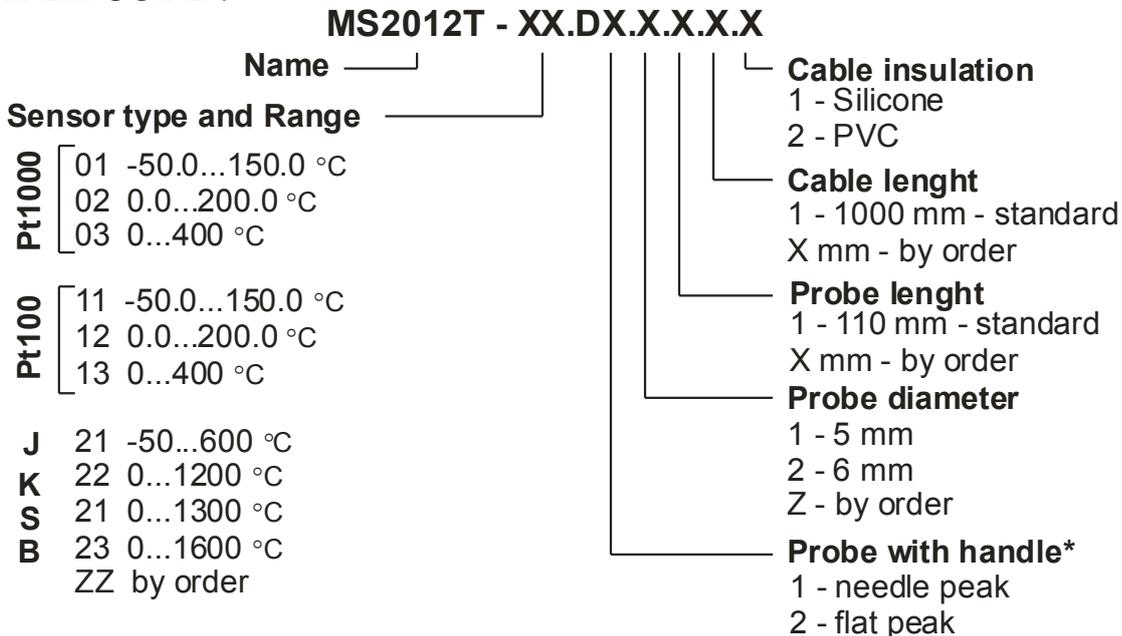


tof = 0 – without self-shutdown. The real self- shutdown timing is calculated by multiplying the **-tof** parameter by 12 s.

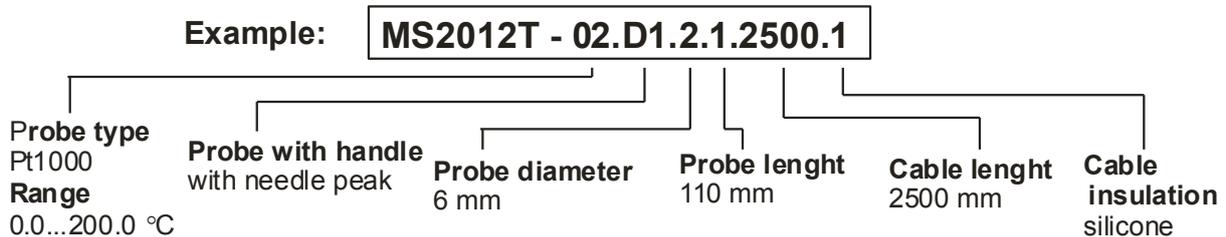
* *The necessary settings are made at the factory. The unit allows the factory settings to be changed. Contact the manufacturer's specialist for this purpose.*

BATTERY INSTALLATION / REPLACEMENT: If the batteries are low, LoBat appears on the left side of the display. To replace the batteries, remove the cover from the back of the case and replace it with new ones, observing their polarity.

ORDER CODE :



* The unit allows to work other probe configuration with.
Check it on www.microsyst.net - temperature Probes



WARRANTY CARD

Warranty card №:.....

Warranty term:..... months

Factory number:.....

The items were purchased from :.....

Invoice number:...../..... 20..... year .

GUARANTEE CONDITIONS

The guaranty consists in free repairs of all the factory defects which can occur during the guarantee period. **The repair is performed as in the repair base is being presented the current guarantee card with which the device is bought.** The warranty does not refer to issue caused by a bad transport, bad conservation, wrong exploitation, natural disasters, not following the instructions and the cases when there is an attempt to fix any defects by other people. In those cases the issue is being fixed only against payment.

The maintenance during the guarantee period and doing the claims happens according to the valid legislation.

PERFORMED REPAIRS IN THE SERVICE

Service	Date of receipt	Order number	Type of repairs done	Date of transmission	Carried out the repair

Seller:.....

Buyer:.....

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