

**HUMIDITY/TEMPERATURE MEASURING  
INSTRUMENT**

**MS2000RH / MS2012RH**

**v 5.22**



**USER MANUAL**

**PLOVDIV 2020**



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## I. TECHNICAL DATA

<b>Inputs</b>	2
Relative humidity sensor	Capacitive
RTD sensor	Pt1000
<b>Measurement accuracy:</b>	
Relative humidity	$\pm 2 \% \text{ za } 5 \div 90 \% \text{ rh}$
Temperature	$0,2 \text{ }^\circ\text{C} \text{ za } -10,0 \div 100,0 \text{ }^\circ\text{C}$
<b>Indication and keyboard</b>	
MS2000RH Display	LCD 2x8
MS2012RH Display	LCD 3 ½
Keyboard	semi-sensor
<b>Power supply</b>	
Supply voltage 3V DC	AAA 1,5V x 2
<b>Operating conditions</b>	
Temperature	$0 \div 50 \text{ }^\circ\text{C}$
Relative humidity	$< 85 \% \text{ rh}$
<b>Dimensions</b>	
Overall dimensions (WxHxL)	100 x 65 x 25 mm
Weight	max 200 g
Protection	IP40
<b>Probe</b>	
Combined	Relative humidity & Temperature
Coupling	PC-4
Cable lenght	1 m
<b>Storage</b>	
Storage temperature	$-10 \div 70 \text{ }^\circ\text{C}$
Storage relative humidity	$0 \div 95 \% \text{ rh}$
<b>Versions:</b> 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..	

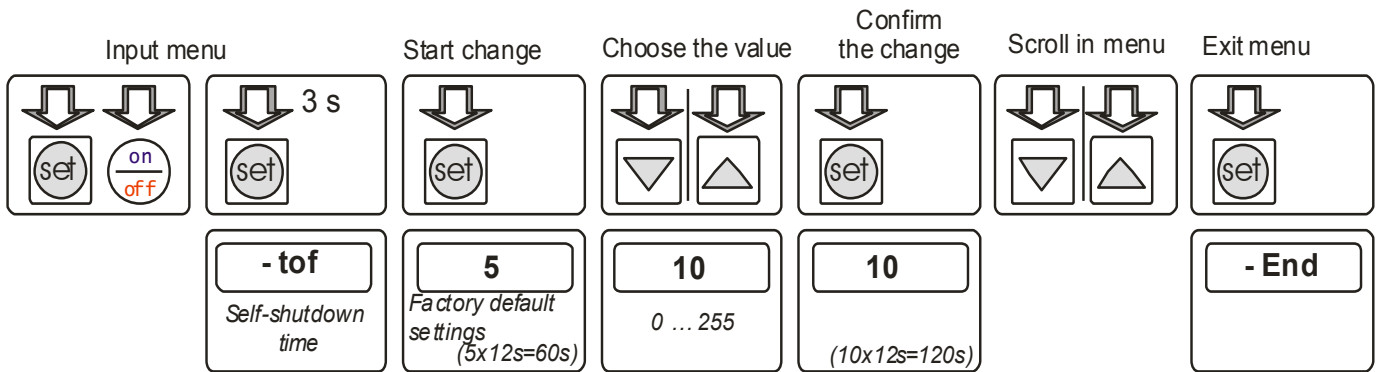
## II. DESCRIPTION

The MS2000RH / MS2012RH is an autonomous, portable dual-channel instrument for measuring and displaying relative humidity and temperature of air and other non-aggressive gases. The built-in parameter system maximizes battery life and adapts to the specific application.

The difference between the two modifications MS2000RH / MS2012RH is in display type and the way the measured values are written. For the MS2000RH, the first line of the display shows the relative humidity value and the second line shows the temperature. In MS2012RH, the readings are alternated automatically or with buttons  and .


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:

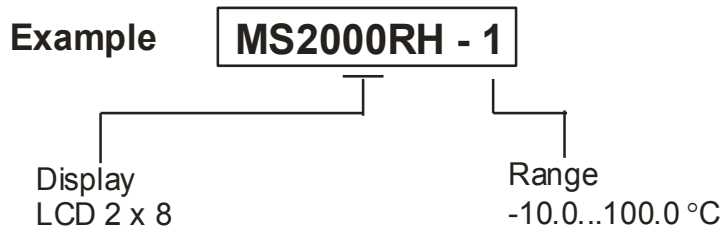
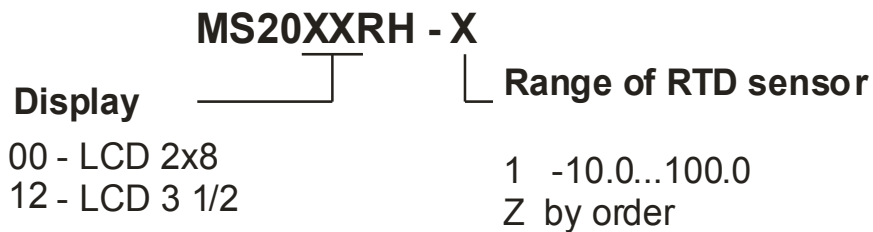


**tof = 0** – without self-shutdown. The real self- shutdown timing is calculated by multiplying the **-tof** parameter by 12 s.

*\* 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,  appears on the right side of the display. For MS2012RH **LoBat** appears on the left side. To replace the batteries, remove the cover from the back of the case and replace it with new ones, **observing their polarity**.

**ORDER CODE :**



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## 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, nature 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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