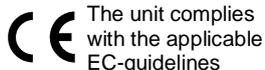


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Operating instructions



The unit complies with the applicable EC-guidelines



Fig. 1: 12910-00 Cobra SMARTsense Wide Range Temperature -20...330 °C

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1 SAFETY PRECAUTIONS



Caution!

- Carefully read these operating instructions completely before operating this instrument. This is necessary to avoid damage to it, as well as for user-safety.
- Only use the instrument for the purpose for which it was designed.
- Only use the instrument in dry rooms in which there is no risk of explosion.
- Protect the instrument from dust, moisture and vapours. Use a slightly moist lint-free cloth to clean the instrument. Do not use aggressive cleaning agents or solvents.
- Take care that no liquid penetrates in through the housing openings, as such penetration would result in damage to Sensor.
- Do not open the unit.

2 PURPOSE AND CHARACTERISTICS

The sensor is used for measuring temperature values and for transferring the values to a terminal device, e.g. a tablet computer, smartphone, etc., via Bluetooth.

3 FUNCTIONAL AND OPERATING ELEMENTS

3.1 Operating elements

The sensor has an on-button and two LEDs for indicating the Bluetooth and battery charge status.

On-button 

Press the on-button for more than 3 seconds to switch the sensor on and off

Bluetooth-LED 

Flashing red every 2 seconds	Not connected
Flashing green every 2 seconds	Connected to the terminal device
Flashing green every 4 seconds	Running measurement

Battery charge LED 

Flashing red every 5 seconds	Low battery
------------------------------	-------------

3.2 Functional elements

The temperature-sensitive element is located at the tip of the 15 cm long, corrosion-resistant sensor rod.

4 NOTES ON OPERATION

This Cobra SMARTsense Wide Range Temperature fulfils all of the technical requirements that are compiled in current EC guidelines. The characteristics of this product qualify it for the CE mark.

This instrument is only to be put into operation under specialist supervision in a controlled electromagnetic environment in research, educational and training facilities (schools, universities, institutes and laboratories).

The individual connecting leads are each not to be longer than 2 m.

The instrument can be so influenced by electrostatic charges and other electromagnetic phenomena (HF, bursts, indirect lightning discharges) that it no longer works within the given specifications. Carry out the following measures to reduce or eliminate the effect of such disturbance: Ensure potential equalization at the PC (especially with Laptops). Use screening.

5 HANDLING

This section describes the start-up of the sensor and the recording of measurement data. Please read this section thoroughly in order to avoid failures or operating errors.

5.1 Start-up

Switch the sensor on by pressing the on-button for more than 3 seconds. The Bluetooth LED lights up red. Start the measureApp application and select the sensor.

There is a four-digit code on the back of the sensor. This code corresponds to the last four digits of the sensor name in the measureApp application. This enables the precise assignment of the sensors within the measureApp application. After the sensor has been selected in the measureApp application, the LED lights up green, thereby signalling that the connection has been correctly established.

If the sensor is switched on, but not connected, it will switch off automatically after five minutes.

5.2 Recording of temperature measurement data

Hold the sensor into the medium to be measured down to a maximum depth of 15 cm.

Take the response time of the system due to the metallic sensor rod into consideration.

5.3 Remove the battery



Fig. 4

Open the sensor by turning the screw cap on the back of the sensor counterclockwise, e.g. with a coin.

Lever the battery sensitively, e.g. with the help of a small screwdriver or a small pair of scissors, out of its socket. Insert the screwdriver as shown in Fig. 5.



Fig. 5

Insert new battery

Slide the battery under the golden metal nose (Fig.6-1). Make sure that the battery is completely under the metal nose and completely pushed to the upper edge.

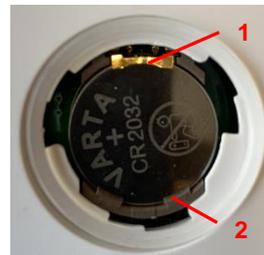


Fig. 6

Push the battery into the socket by pressing lightly on the opposite side.

The battery slips under the two plastic lugs (Fig. 6-2), which is also noticed by a short "click".



Fig. 7

Before closing, make sure that the seal in the lid is not bent and lies neatly on the edge of the lid. Then tighten the cover clockwise.

TECHNICAL DATA

Operating temperature range: 5 - 40°C
Rel. humidity < 80%

Sensor sheath	Stainless steel, Ø 5 mm
Measuring range	-20...+330°C
Absolute accuracy	± 0.5°C @ 300°C
	± 0.2°C @ 100°C
	± 0.3°C @ 0°C

Resolution	0.01°C
Max. data transfer rate	10 Hz
Battery type	CR2032
Max. wireless range (open field)	30 m
IP category	IP67
Dimensions (width x height x depth)	230 x 35 x 15 mm
Weight	34 g

7 SCOPE OF DELIVERY

- The extent of delivery is as follows
- Cobra SMARTsense Temperature 12910-00
- Operating instructions

8 ACCESSORIES

- Button Cell CR2032, 3V 07922-16
- SMARTlink 12999-99
- USB-Bluetooth-Adapter 07936-00
- Software measureLAB 14580-61
- Free measureApp available from supplier portals

iOS



Android



Windows



9 CONFORMITY



PHYWE Systeme GmbH & Co.KG hereby declares that the radio system type 12910-00 complies with the 2014/53/EU directive. The complete text of the EC Declaration of Conformity is available at the following Internet address:
www.phywe.com/en/ec-declaration

10 DISPOSAL

The packaging mainly consists of environmentally-friendly materials that should be returned to the local recycling stations.



Do not dispose of this product with normal household waste. If this unit needs to be disposed of, please return it to the address that is stated below for proper disposal

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