PHYWE

| Cobra SMARTsense Display | 12955-00 |

PHYWE Systeme GmbH & Co. KG
Robert-Bosch-Breite 10
D–37079 Göttingen

Telefon   +49 (0) 551 604–0
Fax   +49 (0) 551 604–107
E-mail   info@phywe.de
Internet   www.phywe.com

Operating instructions

$C\,E$ The unit complies with the applicable EC-guidelines

Fig. 1: 12955-00 Cobra SMARTsense Display

TABLE OF CONTENTS

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.
- Do not open the unit.

2   PURPOSE AND CHARACTERISTICS

The sensor is used to display Cobra SMARTsense measured values quickly and easily. The display is independent of mobile devices or computers. As the device has a magnetic back, it can be easily attached to metal objects or worn on the wrist with the help of a wristband.

1

3 FUNCTIONAL AND OPERATING ELEMENTS

3.1 Operating elements

The sensor has a switch-on button and a button for scanning a switched-on SMARTsense sensor.

1 Switch-on button ⏻

To switch on the appliance, touch the switch for longer than 3 seconds. No pressure needs to be applied.
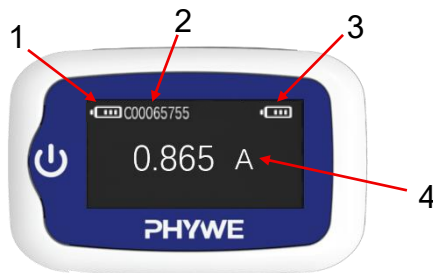
2 Scan button ((•))

As long as the button is pressed, SMARTsense sensors in the immediate vicinity are searched for and shown one after the other in the display; if the button is now released, the sensor found is accepted and the measured values are displayed.

3 USB-C-Buchse

The supplied USB-C connection cable for charging the device can be connected here.

3.2 Display

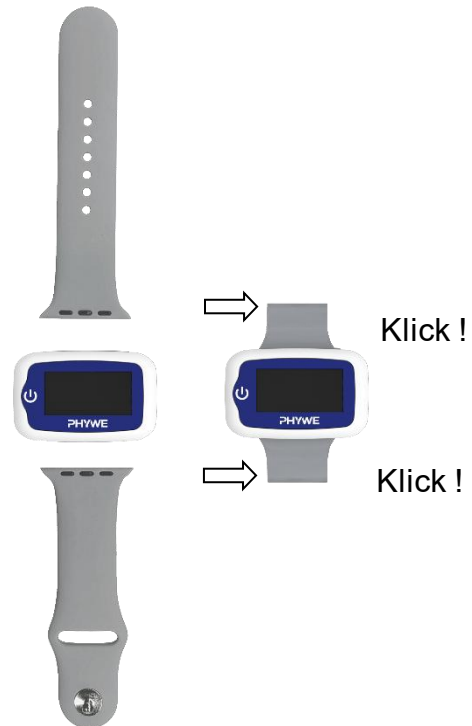The display shows a wide range of information.

1 Battery status: Battery level of the connected sensor.
2 Sensor ID: The ID displayed corresponds to the ID printed on the back of the sensor.
3 Battery status: Battery level of the SMARTsense display
4 Display: Measured value display with unit

3.3 Bracelet holder

The Cobra SMARTsense display can be worn comfortably and securely on the arm using the optional bracelet.
To do this, remove the protective covers from the elongated slots above and below the display and then slide the wristband into the side of the slots until you hear a click.

3.4 USB interface

The USB Type-C interface is used to charge the battery permanently installed in the display.

3.5 Magnetic adhesion

The back of the SMARTsense display is magnetic. This makes it very easy to attach to metal surfaces, e.g. PHYWE adhesive board (02150-00).

4 NOTES ON OPERATION

The device 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.

2

5.4 Charging process

Use a USB-C cable to connect the sensor to a computer or USB charger (not included).

 Disconnect the charger at the latest four hours after the completion of the charging process. Otherwise, the service life of the battery may be negatively affected.

5.2 Start-up

Switch on the SMARTsense display by pressing and holding the power button for longer than 3 seconds.

To display the measured values of a sensor, hold the display close (< 10cm) to the switched-on sensor and press and hold the scan button.

The device will now search for SMARTsense sensors. If no sensors are found in the vicinity, a symbol appears. If a sensor is found, it is displayed and the measured values are displayed continuously after the scan button is released.

If there are several sensors in the immediate vicinity of the display, the sensors are displayed one after the other. To avoid this, place the sensors further apart (distance greater than 30cm) and scan close to the desired sensor as described above.

6 TECHNICAL DATA

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

Display
Size (width x height)	34,5x23 mm
Resolution	128x64 Pixel
Refresh Rate	5 Hz

Battery	3,7V / 250 mAh LiIon
Device operating time	8 Hours

Wireless
Bluetooth 5.1
Max. wireless range (open field)	30 m

Dimensions (length x width x height)	50 x 32 x 16 mm
Weight	23 g

7 SCOPE OF DELIVERY

The extent of delivery is as follows

- Cobra SMARTsense Display   12955-00
- USB connecting cable type C   07935-00
- Operating instructions

8 ACCESSORIES

The following accessories are available:

- USB charger   07934-99
- USB Anschlussleitung Typ C   07935-00
- Bracelet   12955-10

9 CONFORMITY

 PHYWE Systeme GmbH & Co.KG herewith declares that the radio system type 12955-00 complies with Directive 2014/53/EU. The complete text of the EU 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

PHYWE Systeme GmbH & Co. KG
Customer service department
Robert-Bosch-Breite 10
D–37079 Göttingen

Phone	+49 (0) 551 604-0
Fax	+49 (0) 551 604-107

11 NOTES ON BATTERY AND RECHARGEABLE BATTERY DISPOSAL

As we sell batteries and rechargeable batteries or devices containing batteries and rechargeable batteries, we are obliged under the Battery Act to inform you of the following: Batteries and rechargeable batteries may not be disposed of with household waste, but you are legally obliged to return used batteries and rechargeable batteries. Used batteries may contain harmful substances that can damage the environment or your health if they are not stored or disposed of properly. Batteries also contain important raw materials such as iron, zinc, manganese or nickel and are recycled. You can either send the batteries back to us after use or return them free of charge in the immediate vicinity (e.g. in shops or at municipal collection centres). Batteries or rechargeable batteries that contain harmful substances are labelled with the symbol of a crossed-out dustbin.

3