

Student set Environment and outdoors digital, TESS advanced Biology

Item No. 12628-88D



Function and Applications

The digital set allows you to use the latest measurement technology for your environmental and outdoor analysis and is very easy to use. In addition to classic parameters such as temperature, air pressure, brightness, relative humidity, pH, conductivity and water turbidity, the weather station allows you to make complete weather observations and even collect GPS data in the field. The Cobra SMARTlink can not only be used as an interface for the sensors, but also offers additional flexibility for group work with its built-in sensors.

Benefits

- Whether in the classroom, outdoors or on project days: in this robust aluminium case, you will always find the right device for carrying out fascinating experiments with student groups.
- Several student groups can work on and investigate interesting topics in parallel.
- Works with all iOS and Android devices with free app (measureAPP).
- Students can evaluate the data at home, as a homework assignment.
- Ideal for outdoors project days.

Equipment and Technical Data

- Robust aluminum case
- 1 x Cobra SMARTlink
- 1 x Cobra SMARTsense - Weatherstation (Bluetooth + USB)
- 1 x Cobra SMARTsense - Relative Humidity, 0 ... 100 %
- 1 x Cobra SMARTsense - pH, 0 ... 14
- 1 x Cobra SMARTsense - Conductivity, 0 ... 20000 $\mu\text{S}/\text{cm}$
- 1 x Cobra SMARTsense - Temperature, - 40 ... 120 °C
- 1 x Cobra SMARTsense - Absolute Pressure, 20...400 kPa
- 1 x Cobra SMARTsense - Light, 1 ... 128 kLX
- 1 x Cobra SMARTsense - Colorimeter for the measurement of turbidity, 0 ... 100 %
- 1 x pH electrode, plastic, gel-filled
- 1 x 100 red pH 4 buffer tablets
- 1 x 100 green pH 10 buffer tablets
- 5 x 20 ml calibration solution for conductivity electrode
- 2 x protective case for pH and conductivity electrodes
- 1 x 120 labels
- 4 x 100 ml square flange (HDPE)
- 2 x 250 ml PP laboratory beaker

Scope of supply

Cobra SMARTsense Weatherstation - Weather station for measuring 17 measured variables (Bluetooth + USB)	12946-00	1
Cobra SMARTlink	12999-99	1
Cobra SMARTsense Relative Humidity - Sensor for measuring relative humidity 0 ... 100 % (Bluetooth + USB)	12931-01	1
Cobra SMARTsense pH - Sensor for measuring the pH value 0 ... 14 (Bluetooth)	12921-00	1
Cobra SMARTsense - Conductivity, 0...20000 µS/cm, 0...60°C (Bluetooth)	12922-01	1
Cobra SMARTsense Temperature - Sensor for measuring temperature -40 ... 120 °C (Bluetooth)	12903-00	1
Cobra SMARTsense Light - Sensor for measuring the illuminance 0 ... 128 kLx (Bluetooth + USB)	12906-01	1
Cobra SMARTsense Absolute Pressure - Sensor for measuring the absolute pressure 20 ... 400 kPa (Bluetooth + USB)	12905-01	1
Cobra SMARTsense Colorimeter - Sensor for measuring colours and turbidity 0 ... 100 % / 0 ... 400 NTU (Bluetooth + USB)	12924-01	1
Protection sleeve for electrode with a diameter of 12 mm	37651-15	2
Buffer solution tablets pH4, 100	30281-10	1
Buffer solution tablets pH10, 100	30283-10	1
Labels for microscopic slides, 120/pkg	64703-00	1
Square bottle, wide neck, plastic, various sizes	47417-00	4
Beaker, 250 ml, plastic (PP)	36013-01	2
Wash bottle, 250 ml, plastic	33930-00	1

Necessary accessories

Button Cell CR2032, 3V (2 pieces)	07922-17
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Recommended accessories

Macro-cuvettes, PS, 4ml,100 pcs	35663-10
TESS Environment and Outdoors optional accessories for 10 groups	13445-88D
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measureLAB, multi-user license	14580-61