

| | AIR QUALITY SENSOR AIR-SENSOR/BLERBOX W/FI | DIGITAL TEMPERATURE PROBE/BLERBOX/PROBE-IM | DIGITAL TEMPERATURE PROBE/BLERBOX/PROBE-AM | DIGITAL TEMPERATURE PROBE/BLERBOX/PROBE-SM | WATER FLOOD DETECTOR FLOOD-SENSOR/BLERBOX W/FI | TEMPERATURE AND HUMIDITY SENSOR HUMIDITY-SENSOR/BLERBOX W/FI | TEMPERATURE AND HUMIDITY SENSOR HUMIDITY-SENSOR/BLERBOX W/FI | RAIN SENSOR RAIN-SENSOR/BLERBOX W/FI | TEMPERATURE SENSOR TEMP-SENSOR-AC/BLERBOX W/FI | TEMPERATURE SENSOR TEMP-SENSOR/PROBLEM/BLERBOX W/FI | TEMPERATURE SENSOR TEMP-SENSOR-3/BLERBOX W/FI | TEMPERATURE SENSOR TEMP-SENSOR/BLERBOX W/FI | WIND SENSOR WIND-SENSOR/PROBLEM/BLERBOX W/FI |
|-------------------------------|---|--|--|--|---|---|---|--|---|---|---|---|---|
| Support | 60.03 EUR 60.03 EUR | 4.66 EUR 4.66 EUR | 5.25 EUR 5.25 EUR | 6.41 EUR 6.41 EUR | 36.71 EUR 36.71 EUR | 36.72 EUR 36.72 EUR | 36.71 EUR 36.72 EUR | 38.66 EUR 38.66 EUR | 28.17 EUR 28.17 EUR | 40.60 EUR 40.60 EUR | 19.23 EUR 19.23 EUR | 17.01 EUR 17.01 EUR | 126.07 EUR 126.07 EUR |
| Detection | Air quality - Fine dust particles PM1, PM2.5, PM10 | Temperature | Temperature | Temperature | Water | Temperature, relative humidity | Temperature, relative humidity | rainfall | Temperature | Temperature | Temperature | Temperature | Wind speed |
| Measuring accuracy | | ± 0.5 °C (-10 ... 85 °C) | ± 0.5 °C (-10 ... 85 °C) | ± 0.5 °C (-10 ... 85 °C) | | | | | | | | | |
| Measurement range | 0 ... 500 µg/m³ @ PM2.5 | -55 °C ... 125 °C | -55 °C ... 125 °C | -55 °C ... 125 °C | | + Temperature : -40 ... 125 °C + relative humidity : 0 RH ... 100 % RH | + Temperature : -40 ... 125 °C + relative humidity : 0 RH ... 100 % RH | beginning and end of precipitation @ 0 ... 50 °C | 55 ... 125 °C | 55 ... 125 °C | 55 ... 125 °C | 55 ... 125 °C | 0.5 ... 30 m/s (1.8 ... 108 km/h) |
| Alarm signaling | Signal to the wBox mobile application | | | | + Signal to the wBox mobile application + Acoustic (buzzer) - 75 dB | Signal to the wBox mobile application | Signal to the wBox mobile application | Signal to the wBox mobile application | Signal to the wBox mobile application | Signal to the wBox mobile application | Signal to the wBox mobile application | Signal to the wBox mobile application | Signal to the wBox mobile application |
| Control output | | | | | | | | 00 ("open drain") type | | | | | |
| Frequency range | 2.4 GHz Wi-Fi - IEEE 802.11g | | | | 2.4 GHz Wi-Fi - IEEE 802.11g | 2.4 GHz Wi-Fi - IEEE 802.11g | 2.4 GHz Wi-Fi - IEEE 802.11g | 2.4 GHz Wi-Fi - IEEE 802.11g | 2.4 GHz Wi-Fi - IEEE 802.11g | 2.4 GHz Wi-Fi - IEEE 802.11g | 2.4 GHz Wi-Fi - IEEE 802.11g | 2.4 GHz Wi-Fi - IEEE 802.11g | 2.4 GHz Wi-Fi - IEEE 802.11g |
| Mobile phones support | • The wBox free application on Android • The wBox free application on iOS | | | | • The wBox free application on Android • The wBox free application on iOS | • The wBox free application on Android • The wBox free application on iOS | • The wBox free application on Android • The wBox free application on iOS | • The wBox free application on Android • The wBox free application on iOS | • The wBox free application on Android • The wBox free application on iOS | • The wBox free application on Android • The wBox free application on iOS | • The wBox free application on Android • The wBox free application on iOS | • The wBox free application on Android • The wBox free application on iOS | • The wBox free application on Android • The wBox free application on iOS |
| Power supply | • 12 ... 24 V AC / DC screw terminals • 5 V DC - micro USB | 3 ... 5.5 V DC | 3 ... 5.5 V DC | 3 ... 5.5 V DC | 5 V DC - USB-A (power adapter not included) | 5 V DC - USB-C (power adapter not included) | 5 V DC - micro USB (power adapter not included) | 12 ... 24 V DC | 230 V AC | 12 ... 24 V DC | 5 V DC - micro USB (power adapter not included) | 5 V DC - micro USB (power adapter not included) | 12 ... 24 V DC |
| Power consumption | < 1 W (Standby mode) max. 2 W (operation) | | | | 6 W (max) | < 1 W | < 1 W | < 1 W - Standby up to 1.5 W - Heater on max. 6 W | < 1 W | < 1 W | < 1 W | < 1 W | < 1 W |
| Length of the cable | | 1 m | 2 m | 5 m | | | | | | | | | |
| Permissible relative humidity | 0 ... 99 % | | | | | | | | | | | | |
| Main features | <ul style="list-style-type: none"> Measuring accuracy : 50 % @ 0.5 µm, 98 % @ ≥ 0.5 µm Rozdzielczość detekcji : 1 µg/m³ Laser sensor Measurement duration : 10 s Measurement frequency : 10 minutes / manual Data presentation on the www.akosce.poznan.pl/wbox website Phone notification Internal antenna µWiFi technology support remote access Controlling BleBox devices Voice control Bidirectional communication Transmission encryption : WPA2-PSK (AEAD) LED indication Protections : Reverse polarity of the input voltage, ESD Assembly : self-adhesive tape | <ul style="list-style-type: none"> Waterproof probe - the ability to measure water temperature Chemically resistant Thermal class B : 130 °C Communication : digital | <ul style="list-style-type: none"> Waterproof probe - the ability to measure water temperature Chemically resistant Thermal class B : 130 °C Communication : digital | <ul style="list-style-type: none"> Waterproof probe - the ability to measure water temperature Chemically resistant Thermal class B : 130 °C Communication : digital | <ul style="list-style-type: none"> Two programmable temperature thresholds (upper and lower) Two programmable humidity thresholds (upper and lower) Measuring accuracy - Temperature : 0.2 °C (0 ... 80 °C) Measuring accuracy - relative humidity : 1.8 % RH (30 RH ... 70 % RH @ 0 ... 80 °C) Dokładność wyświetlania pomiaru - Temperature : 0.1 °C Dokładność wyświetlania pomiaru - relative humidity : 0.1 % RH Determining the trend of changes Thermal comfort index Calculated parameters : absolute humidity, dew point, heat index Charts and measurement history Data export in ".csv" format Phone notification Internal antenna µWiFi technology support remote access Controlling BleBox devices Voice control Bidirectional communication Transmission encryption : WPA2-PSK (AEAD) Assembly : self-adhesive tape | <ul style="list-style-type: none"> Two programmable temperature thresholds (upper and lower) Two programmable humidity thresholds (upper and lower) Measuring accuracy - Temperature : 0.2 °C (0 ... 80 °C) Measuring accuracy - relative humidity : 1.8 % RH (30 RH ... 70 % RH @ 0 ... 80 °C) Dokładność wyświetlania pomiaru - Temperature : 0.1 °C Dokładność wyświetlania pomiaru - relative humidity : 0.1 % RH Determining the trend of changes Thermal comfort index Calculated parameters : absolute humidity, dew point, heat index Charts and measurement history Data export in ".csv" format Phone notification Internal antenna µWiFi technology support remote access Controlling BleBox devices Voice control Bidirectional communication Transmission encryption : WPA2-PSK (AEAD) Assembly : self-adhesive tape | <ul style="list-style-type: none"> Determining the duration of precipitation The device has a built-in heater - Auto, Power-saving mode Charts and measurement history Data export in ".csv" format Phone notification Controlling BleBox devices Voice control Internal antenna µWiFi technology support remote access Bidirectional communication Transmission encryption : WPA2-PSK (AEAD) LED indication Maximum number of connected probes : 4 (1 included) Waterproof probe - the ability to measure water temperature self test feature Protections : Galvanic separation protecting against potential difference Assembly : flush mounting box, housing | <ul style="list-style-type: none"> Two programmable temperature thresholds (upper and lower) Measuring accuracy : 0.5 °C (-10 ... 85 °C) Determining the trend of changes Charts and measurement history Data export in ".csv" format Phone notification Controlling BleBox devices Voice control µWiFi technology support remote access Bidirectional communication Transmission encryption : WPA2-PSK (AEAD) Maximum number of connected probes : 4 (1 included) Waterproof probe - 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the ability to measure water temperature self test feature Assembly : self-adhesive tape | <ul style="list-style-type: none"> Instantaneous speed measurement Display of the maximum wind speed (gusts) over a period of 10 minutes Display of the average wind speed over a period of 10 minutes Selectable measurement unit: m/s, km/h, kt Charts and measurement history Data export in ".csv" format Phone notification Controlling BleBox devices Voice control Omnidirectional antenna WPA2-PSK (AEAD) SMA-RP socket Protections : Reverse polarity of the input voltage, ESD Assembly : 2 Mounting holes 18 x 3.5 mm, self-adhesive tape - Controller, 4 x M5/M6 screw - Wind Sensor 4 mounting screws included Connecting cable 2m (included) | | |
| Housing | Plastic (ABS) | Metal, Self-extinguishing PVC | Metal, Self-extinguishing PVC | Metal, Self-extinguishing PVC | Plastic (ABS) | Plastic (ABS) | Plastic (ABS) | Non-halogen plastic, Self-extinguishing | Non-halogen plastic, Self-extinguishing | Non-halogen plastic, Self-extinguishing | Plastic (ABS) | Plastic (ABS) | Non-halogen plastic, Self-extinguishing |
| Index of Protection | IP32 | IP65 | IP65 | IP65 | | IP32 | IP32 | IP55 | IP54 | IP54 | IP32 | IP32 | IP54 |
| Color | White | | | | Black | White | White | Graphite | Black | Black | White | White | Black |
| Operation temp | -10 ... 50 °C | | | | 20 ... 50 °C | 20 ... 50 °C | 20 ... 50 °C | 20 ... 50 °C | 20 ... 50 °C | 20 ... 50 °C | 20 ... 50 °C | 20 ... 50 °C | 20 ... 50 °C |
| Weight | 0.08 kg | 0.02 kg | 0.03 kg | 0.1 kg | 0.04 kg | 0.04 kg | 0.04 kg | 0.11 kg | 0.06 kg | 0.13 kg | 0.03 kg | 0.03 kg | 0.07 kg (container box with controller) 0.42 kg (total) |
| Dimensions | 71 x 71 x 27 mm | Ø 6 x 30 mm | Ø 6 x 30 mm | Ø 6 x 30 mm | 46 x 31 x 18 mm | <ul style="list-style-type: none"> 45 x 31 x 18 mm Ø 13 x 46 mm - Probe 1 m - Length of the cable (Probe) | <ul style="list-style-type: none"> 45 x 31 x 15 mm Ø 13 x 46 mm - Probe 1 m - Length of the cable (Probe) | <ul style="list-style-type: none"> 37 x 32 x 34 mm Ø 6 x 51 mm - Probe 1 m - Length of the cable (Probe) | <ul style="list-style-type: none"> 92 x 50 x 28 mm - without antenna 230 x 85 x 28 mm - with antenna, vertical 197 mm - Antenna Ø 6 x 30 mm - Probe 2 m - Length of the cable (Probe) | <ul style="list-style-type: none"> 45 x 31 x 15 mm Ø 6 x 30 mm - Probe 1 m - Length of the cable (Probe) | <ul style="list-style-type: none"> 45 x 31 x 15 mm Ø 6 x 30 mm - Probe 1 m - Length of the cable (Probe) | <ul style="list-style-type: none"> 45 x 31 x 15 mm Ø 6 x 30 mm - Probe 1 m - Length of the cable (Probe) | <ul style="list-style-type: none"> 92 x 50 x 28 mm - without antenna 230 x 85 x 28 mm - with antenna, vertical 195 mm - Antenna Ø 200 x 128 mm - Wind Sensor 2 m - Length of the cable |
| Manufacturer / Brand | BleBox | BleBox | BleBox | BleBox | BleBox | BleBox | BleBox | BleBox | BleBox | BleBox | BleBox | BleBox | BleBox |
| Guarantee | 2 years | 2 years | 2 years | 2 years | 2 years | 2 years | 2 years | 2 years | 2 years | 2 years | 2 years | 2 years | 2 years |

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