

| | TWILIGHT SWITCH FOR LED LIGHTING TWILIGHT-COMPACT/BLEBOX 12 ... 24 V DC | POWER METER WITH LCD DISPLAY OR-WAT-419 ORNO | GROUNDING RESISTANCE METER UT-522 UNI-T | ACCESS CONTROLLER WITH TEMPERATURE MEASUREMENT APTI-A180FQRTD 4.5 mm - 1080p | EXPANSION PLUG KS-12/8X120 KLIMAS |
|---|---|---|--|--|---|
| |  |  |  |  |  |
| | 64.22 PLN 64.22 PLN | 43.17 PLN 43.17 PLN | 819.65 PLN 819.65 PLN | 180.00 PLN 180.00 PLN | 2.04 PLN 2.04 PLN |
| Device type | ... | Power meter with LCD display | ... | ... | ... |
| Power measurement | ... | 0.1 ... 3680 W | ... | ... | ... |
| Scanning system | ... | ... | ... | Progressive | ... |
| Material | ... | ... | ... | ... | <ul style="list-style-type: none"> • Expansion plug, Polypropylene • Screw, Steel galvanized |
| AC voltage measurement | ... | 200 ... 276 V | ... | ... | ... |
| Drilling diameter | ... | ... | ... | ... | 12 mm |
| Rated voltage | 12 ... 24 V DC | ... | ... | ... | ... |
| Maximal current | ... | 16 A | ... | ... | ... |
| Expansion plug length | ... | ... | ... | ... | 80 mm |
| Optical zoom | ... | ... | ... | — | ... |
| Maximal load | ... | 3680 W | ... | ... | ... |
| Maximal total load | 60 ... 120 W | ... | ... | ... | ... |
| Total maximal current | 5 A | ... | ... | ... | ... |
| Number of inputs | 0 | ... | ... | ... | ... |
| Range of displayed power | ... | 0.0 ... 9999 W | ... | ... | ... |
| Screw dimensions | ... | ... | ... | ... | Ø 8 x 120 mm, SW-13 |
| Number of outputs | 1 | ... | ... | ... | ... |
| Connector type | screw terminals | ... | ... | ... | ... |
| Sensor | ... | ... | ... | 1/2.9 " GC2093 1/2.9 " GC2053 | ... |
| Range of displayed voltage | ... | 0.0 ... 9999 V | ... | ... | ... |
| Wireless | — | ... | ... | ... | ... |
| Matrix size | ... | ... | ... | 2.1 Mpx 2 Mpx | ... |
| Application | Works with LED lighting - 12-24V LED strips | ... | ... | ... | <ul style="list-style-type: none"> • Concrete • Solid clay brick • Solid sand-lime brick |
| Mobile phones support | — | ... | ... | ... | ... |
| Lens | ... | ... | ... | 4.5 mm 4.5 mm | ... |
| Range of displayed cumulative electricity | ... | 0.000 ... 9999 kWh | ... | ... | ... |
| Cumulative cost of electricity | ... | 0.00 ... 9999 € | ... | ... | ... |
| Cost electricity setting range | ... | 00.00 ... 99.99 €/kWh | ... | ... | ... |
| Resistance measurement | ... | ... | 40 Ω ± (2% + 20) @ 0.01 Ω , 400 Ω ± (2% + 3) @ 0.1 Ω , 4000 Ω ± (2% + 3) @ 1 Ω • Auxiliary resistance : 500 Ω ± 5 % • Measuring voltage : ≤ 10 V AC @ ~820 Hz | ... | ... |
| Cards support | ... | ... | ... | 13.56 MHz S50 | ... |
| Keyboard built-in | ... | ... | ... | — | ... |
| Doorbell button | ... | ... | ... | — | ... |
| Ground voltage measurement | ... | ... | 400 V ± (1.0% + 6) @ 1 V | ... | ... |
| Automatic change of measuring ranges | ... | ... | — | ... | ... |

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|-------------------------------------|---|--|---|---|-----|
| Resolution | ... | ... | ... | 1920 x 1080 - 1080p 1280 x 720 - 720p 640 x 480 px | ... |
| RS-232 | ... | ... | — | ... | ... |
| View angle | ... | ... | ... | 66 ° 66 ° 90 ° | ... |
| USB | ... | ... | — | ... | ... |
| Interface | ... | ... | ... | USB, RS-232 TTL | ... |
| Maximum background illumination | ... | ... | ... | 100 000 Lux | ... |
| Security class | ... | IP20 | ... | ... | ... |
| Socket type | ... | 2P+Z, E type | ... | ... | ... |
| Main features | <ul style="list-style-type: none"> • High power - max. 120 W, • Automatic calibration, • Mild lightening at dusk, • Mild darkening at dawn, • Small dimensions | <ul style="list-style-type: none"> • Operation modes : Power consumption, Voltage, Cumulated amount of electricity, Cumulative cost of electricity (€/kWh) • Large, readable LCD display • Simple configuration of the cost calculation setting | <ul style="list-style-type: none"> • Hold - stopping the meter reading, • The measurement can be performed in full or simplified configuration, • Warning of poor connection of leads during measurement, • Large, readable LCD display with backlight, • Low battery level alarm, • Aesthetic and solid construction, • The set includes a practical case | ... | ... |
| Operation temp | -20 °C ... 50 °C | ... | 5 °C ... 40 °C | ... | ... |
| Permissible relative humidity | ... | ... | ≤ 80 % (non-condensing) | ... | ... |
| QR codes reading | ... | ... | ... | <ul style="list-style-type: none"> • 1D : EAN, UPC, Code 39, Code 93, Code 128, UCC/EAN 128, Codabar, Interleaved 2 of 5 (ITF), ITF-6, ITF-14, ISBN, ISSN, MSI-Plessey, GS1 Databar, Code 11, Industrial 25, Standard 25, Plessey, Matrix 2 of 5 • 2D : QR Code, Data Matrix, PDF417, Aztec | ... |
| Reading distance | ... | ... | ... | <ul style="list-style-type: none"> • EAN13 (13 mm) : 30 ... 140 mm • Code 39 (5 mm) : 30 ... 50 mm • QR Code (20 mm) : 35 ... 120 mm • Data Matrix (10 mm) : 30 ... 70 mm • PDF417 (6.67 mm) : 30 ... 80 mm | ... |
| Minimal contrast | ... | ... | ... | 25 % | ... |
| Standard | ... | ... | ... | TCP/IP | ... |
| Range of IR illumination | ... | ... | ... | 5 m | ... |
| White light LED illuminator range | ... | ... | ... | 5 m | ... |
| Temperature measurement | ... | ... | ... | ✓ | ... |
| Temperature measurement range | ... | ... | ... | 35.7 °C ... 42 °C | ... |
| Accuracy of temperature measurement | ... | ... | ... | ± 0.3 °C | ... |
| Temperature measurement distance | ... | ... | ... | 0.7 m ... 1.2 m | ... |



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|-------------------------------|--------------------|------------------|--|--|---------|
| Face recognition distance | ... | ... | ... | 0.5 m ... 2.0 m (max 30 000 faces in the database) | ... |
| Internal memory | ... | ... | ... | Support storage of 50 000 records | ... |
| Video output | ... | ... | ... | — | ... |
| RS-485 interface | ... | ... | ... | ✓ | ... |
| Wiegand interface | ... | ... | ... | ✓ | ... |
| Memory card slot | ... | ... | ... | — | ... |
| Alarm inputs / outputs | ... | ... | ... | 0 / 1 | ... |
| Audio | ... | ... | ... | Speaker built-in | ... |
| Network interface | ... | ... | ... | 10/100 Base-T (RJ-45) | ... |
| Network protocols | ... | ... | ... | IPv4, TCP/IP, HTTP, MQTT, RTSP, SMTP, NTP | ... |
| WEB Server | ... | ... | ... | Built-in | ... |
| ONVIF | ... | ... | ... | — | ... |
| Default IP address | ... | ... | ... | DHCP / 192.168.1.88 | ... |
| Default admin user / password | ... | ... | ... | admin / 12345 | ... |
| Web browser access ports | ... | ... | ... | 80 | ... |
| PC client access ports | ... | ... | ... | 80 | ... |
| Main features | ... | ... | ... | <ul style="list-style-type: none"> • Built-in LCD display showing the image from the video camera and the result of temperature measurement - 800 x 1280 px, 8 " • Wiegand 34/26 • Day/Night mode (color/b&w/auto) • RESET button • Alarm output of NO/NC relay type • Relay output operating modes: access control or notification of an exception • Built-in QR code reader | ... |
| Power supply | ... | 230 V AC, 50 Hz | 6 x 1.5V, type AA/LR6/FR6 battery - included | 12 V / 2 A DC | ... |
| Power consumption | ... | ... | ... | ≤ 18 W | ... |
| Housing | Self-extinguishing | Plastic | ... | Compact - Metal | ... |
| Color | Black | ... | ... | Silver | ... |
| "Index of Protection" | IP20 | ... | ... | — | ... |
| Operation temp | ... | ... | ... | 15 °C ... 25 °C - temperature measurement only in closed rooms (stabilized temperature) | ... |
| Weight | 0.008 kg | 0.12 kg | 0.42 kg | 1.8 kg | ... |
| Dimensions | 23 x 17 x 22 mm | 108 x 64 x 75 mm | 160 x 100 x 70 mm | 366 x 132 x 144 mm | ... |
| Montage hole diameter | ... | ... | ... | 35 mm | ... |
| Length of the cable | ... | ... | ... | 65 cm | ... |
| Supported languages | ... | ... | ... | English, French, Spanish, Ukrainian, Italian | ... |
| Manufacturer / Brand | BleBox | ORNO | UNI-T | APTI | KLIMAS |
| Guarantee | 2 years | 2 years | 2 years | 3 years | 2 years |



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