

KMK 118

BLUETOOTH OPTICAL PROBE

SMART WIRELESS AUTO PROTOCOL DETECTION PROBE

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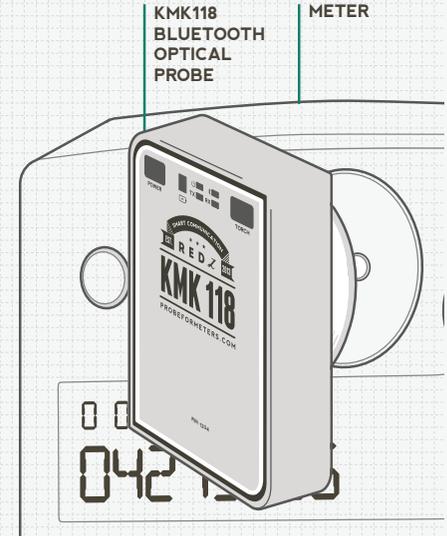
SMART
BLUETOOTH CLASSIC
BLUETOOTH LOW
ENERGY (BLE)
DUAL IN ONE
OPTICAL PROBE

AUTO PROTOCOL
DETECTION



REDZ KMK118 optical probe is designed in IEC 62056-21 standard and it is compatible with all brands and types of IEC meters. The probe has wireless Bluetooth connection (both Bluetooth classic and Bluetooth Low Energy - BLE in same device) thus it can easily be used with any Android or Windows based device with Bluetooth connection support. It can also be used with iOS devices with BLE support.

This is a smart Bluetooth optical probe that can detect IEC62056-21 or DLMS / COSEM protocol and makes baud changeovers automatically. Thus it is possible to use with software that works with existing cable versions of probes and there will be no additional need for device command integration. It supports different operating modes such as command mode and firmware can be changed easily over Bluetooth.



MECHANICAL SPECIFICATIONS

| | | | |
|-----------------|---------|-------------------------------|----------------------------|
| Diameter: | 32 mm | Body and Back Cover Material: | ABS |
| Width: | ~ 40 mm | Transparent Parts: | Transparent Poly Carbonate |
| Height: | ~ 55 mm | Weight: | ~ 95 gr |
| Depth: | ~ 21 mm | | |
| Magnetic Force: | N38 | | |

TORCH FEATURE

| | |
|------------|----------------|
| Torch LED: | 3 mm White LED |
|------------|----------------|

PROBE SPECIFICATIONS

| | | | |
|---------------------------|--------------------------------|-----------------------|--|
| Standard: | IEC 62056-21 (former IEC 1107) | Operating Voltage: | 3,3 V (Rechargeable battery powered through micro USB) |
| Data Communication Speed: | Max 38400 baud | Wavelength: | ~ 900 nm |
| | | Receiver Sensitivity: | Programmatically changeable on Command Mode |

BLUETOOTH SPECIFICATIONS

| | | | |
|------------------|---|---------------------|---|
| Standard: | Bluetooth Classic v4.1 Bluetooth Low Energy, version v4.0. Class 1 radio 1.5Mbps data throughput 128-bit encryption security | LEDs: | Charge, Power, BT Link, TX, RX |
| Operating Modes: | <ul style="list-style-type: none"> IEC 62056-21 Auto Detection, DLMS/Cosem Auto Detection, 9600 baud 8N1 fixed, Command mode, etc. Operating modes can be changed instantly by easily upload firmware over Bluetooth connection | Battery: | 600 mAh rechargeable battery powered. Battery can be charged over Micro USB or USB Type C Connector based on device version |
| Operating Hours: | ~ 10 hours (more than 2200 nonstop readings) | Operating Distance: | Range up to 80m LOS |