

# IEC Probe

## KC320

**KEEC**



### Features

- Successful reading attempt in each discharge period > 800
- Fully qualified Bluetooth v2.0+EDR
- Flash Light LED
- Status of operational mode through LED:
  - **Connection:** send/receive
  - **Status:** Bluetooth connect/disconnect
  - **Power:** On/Off
  - **Charge:** Full/empty
- Internal chargeable battery 3.7V/300mA
- Data communication speed up to 19200 baud
- Ancillary equipment
  - Hand Tie
  - Charger

- Monopod (optional)
- Internal memory up to 1 GB

### Software's

- **SAFIR** This android application can read billing registers of meters and store customers consumption in its SQLite database.
- **CASPIAN** an android service that target to reads electricity meters and share data with billing reporter Applications
- **Kavoshgar** This app targets Facility Management companies who are looking for an easy and accurate way of recording and managing routine electric, water, or gas meter readings.



Standards	IEC 62056-21
	ISO/IEC 1177:1985
Bluetooth	full speed Bluetooth operation with full piconet support
	fully qualified Bluetooth v2.0+EDR
	Enhanced Data Rate (EDR) Complaint with v2.0.E.2 of specification for both 2Mbps and 3Mbps modulation modes
	Bluetooth range 10m or 32feet
optical characteristics	wave length 800 nm < x < 1000 nm
	transmitter On condition $500 < E_{\text{e/T}} < 5000 \text{ uW}/\text{[Cm]}^2$ Off condition $E_{\text{e/T}} < 10 \text{ uW}/\text{[Cm]}^2$
	Receiver On condition $E_{\text{e/T}} > 200 \text{ uW}/\text{[Cm]}^2$ Off condition $E_{\text{e/T}} < 20 \text{ uW}/\text{[Cm]}^2$
	Data communication speed = up to 19200 baud
	Environmental Lighting Condition: The optical path (data transmission) would not be affected by surrounding light with an intensity of up to 16 000 lux (light composition comparable with daylight, including fluorescent light).
Internal power source	lithium polymer battery - 3.7 v - 300 mAh
	auto disconnect when battery fully charged
External power source	INPUT: AC 100-240v / 50-60 Hz/ 65 mA
	OUTPUT: DC 5V/350 mA
operational specifications	The duration of battery life with a permanent link with meter = 6-8 hour
	The average of data transmit with a permanent link with a meter (jam300v2) = 988
	successful reading attempt in 1000 = 96.99%
	Battery Low indication before recharge = 60 min.
	Battery charge duration = 2 hours
	Minimum required charge to read date = 15%
Work temperature	from -20°C to 55°C
mechanical specifications	Diameter = 42 mm
	Height = 28 mm
	Magmetic force = N52
	Body Material = ABS
	weight ≈ 150 gr

