

Technical Guide WIT5.1

BT RF Master

Radio Bluetooth Master Unit for Mobile Meter Reading



Designed by Itron, this radio Bluetooth master unit can read meters equipped with radio interface units, using any kind of reading terminals equipped with Bluetooth interface.

ADAPTABILITY

The BT RF master is the interface needed to read any meter mounted with a RADIAN compatible radio module:

- » Itron water meters
- » Itron gas meters
- » Other meters

It allows automatic reading with any reading terminal, providing that the latter is equipped with Bluetooth.

EASE OF USE

The three diodes implemented on the BT RF Master make it easy to follow-up and trouble-shoot the Communication process in real-time by:

- » Bluetooth Communication between the reading terminal and the BT RF master unit
- » Battery charge indication
- » Radio communication with radian compatible module
- » Confirmation of radio signal reception from the meter

The BT RF Master unit includes a protection bag with integrated belt clip located on its rear side to easily fix it on a belt, a pocket side or any other support.

RELIABLE PERFORMANCE

The BT RF Master is temperature regulated to give the best results in any weather conditions.

It is auto – alimeted with rechargeable standard batteries- performing up to 2000 radio readings per day with batteries full-charged, large full day autonomy – 8 h permanent BT communication.



Bluetooth RF Master Architecture

Technical Characteristics

Radio Frequency Features

Protocol	RADIAN
Modulation	Frequency Shift Keying
Frequency carrier	433.82 MHz
Radiated power	< 10 mW
Transmission	Symmetrical 2 way communication

Outputs

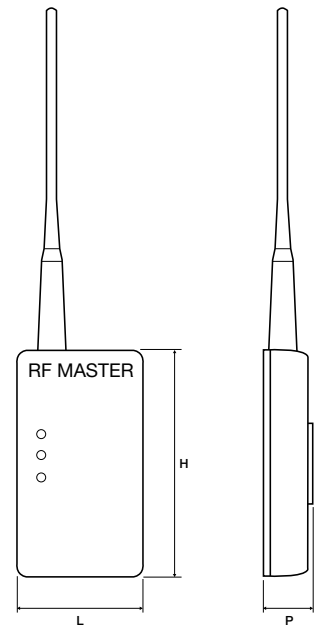
Communication layer	Bluetooth v.2.2. + EDR
Power source	External (Ni-MH batteries 1000 mA) +5 VDC \pm 10%

Functional Specifications

Dimensions	H 112 x L 62 x P 38 mm, without antenna
Weight	205 g
Operating temperature	-10°C / +55°C
Storage temperature	-20°C / +70°C
Conformity certified, in accordance with the European R&TTE directive (1999/5/EC)	

ACCESSORIES

- » Spare aerial
- » Mini USB cable
- » Protection bag



Easy communication follow-up using the three diods