



EquaScan Master^{RF}

RF unit for automated data collection

The Master^{RF} is part of the Itron EquaScan radio System for automated data reading. The Master^{RF} serves as a RF unit for bidirectional communication with Itron EquaScan RF components.

FEATURES

- » Flexible use (Walk-by/FNet)
- » Easy to operate
- » Can be used with every laptop and PC with a Bluetooth interface
- » Reliable, bidirectional radio transmission
- » Innovative data collision management

Automatic radio meter reading considerably increases the efficiency of data collection:

- » 100% access to meter data
- » Comfortable data collection for meters which are difficult to access
- » No errors in reading or copying down data
- » Direct implementation of data into EDP

Flexible use

All Itron EquaScan radio modules and FNet devices can be read with the Master^{RF}. A Bluetooth interface transmits the received data to the recording device (e.g. a laptop or PC with a Bluetooth interface).

The Master^{RF} can autonomously store up to 16,000 data sets and can therefore offer complete data security in the event of a malfunction with the recording device. A full battery covers a whole working day. The collected data is transmitted to the chosen recording device using the Itron EquaScan software, where it can be processed, analysed and saved.

The Master^{RF} also serves as a configuration tool of the EquaScan Router and Coordinator.

Easy to operate

The Master^{RF} is a compact radio receiver for data collection. A robust and ergonomic design with an integrated antenna and a practical belt clip enables the Master^{RF} to be carried easily.

The user can connect the Master^{RF} wireless to his recording device via Bluetooth interface. Four LEDs provide information on the operating condition of the device and the radio system.

- » Power indicator
- » Battery or plug-in indicator
- » RF communication to EquaScan meter modules and heat cost allocators
- » Bluetooth communication to the recording device

Technical data

Radio specifications	Walk-By	FNet
Protocol	EN 13757-3 /-4 wireless M-Bus	ITRON Protocol
Modulation	FSK (Frequency Shift Keying)	GFSK (Gaussian Frequency Shift Keying)
Operating mode	C2 Mode	ITRON
Method of transmission	Bidirectional communication	
Transceiver parameters	20 dBm	14 dBm
Frequency band	868 MHz Baud.	
Electromagnetic compatibility	Interference immunity	ETSI EN 301 489-1-V1.9.2 (2011-09) ETSI EN 301 489-3-V1.6.1 ETSI EN 301 489-17-V2.2.1 EN 61000-3-2 (2006+A1 / 2009+A2 / 2009) EN 61000-3-3 (2008)
	Emitted interference:	ETSI EN 300 220-1 (V2.4.1) ETSI EN 300 220-2 (V2.4.1)
Limitation of human exposure to electromagnetic fields	EN 62311 (2008)	
Information technology safety	EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013	

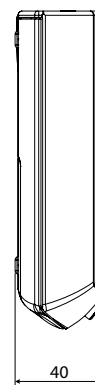
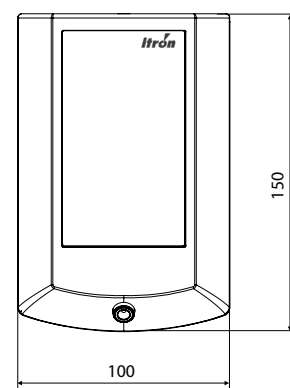
Output

Interface	Bluetooth (Version 1.2 / Class 2)
Power supply	4x AA rechargeable batteries (min. 1.500 mA) (rechargeable batteries included)
Plug connection	12 V mains connection (mains adapter included)

Characteristics

Dimensions	150 x 100 x 40 mm
Weight	192 g (without batteries)
Protection class	IP54 (when used without power supply)
Operating temperature	-10°C / +55°C
Storage temperature	-20°C / +70°C

Dimensions



LEDs provide information on the operating condition

DEVICE FOR MOBILE DATA COLLECTION AND FNET MAINTENANCE

The Master^{RF} enables simple data reading. Data is exchanged via radio in a bidirectional way between EquaScan radio modules or FNet devices and the Master^{RF}. The innovative data collision management ensures a reliable and optimal data exchange.

In combination with the Itron EquaScan software, the Master^{RF} presents a complete system for, automated data collection. The EquaScan software is a menu-guided and intuitive application which is easy to use on a computer.

The data are transferred simply via Bluetooth interface between the Master^{RF} and the recording device. Additional software functions enable individual data filters to be set for reading the relevant required values and meter modules. The Master^{RF} is easy to activate and can be configured individually.

The Master^{RF} can also be used for FNet maintenance and configuration purposes.

Accessories

12V mains adapter (100-240 V input / 12 V output)



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