



# Coordinator/Router

Coordinator and Router for use in the Itron EquaScan FNet system

The EquaScan Coordinator and Router form the core of the Itron EquaScan FNet system for automated remote wireless readings with high endpoints density. The devices quickly, efficiently and securely collect the data from the measuring endpoints within the fixed network system.

## FEATURES

- » Multiple encrypted data transmission
- » End-to-end protection
- » Scalable up to 2,000 endpoints
- » Several fixed networks in wireless range can be operated in parallel
- » Automatic bi-band communication within a network for optimum reliability
- » Self-adaptive dynamic communication (wireless modules/fixed network)

The EquaScan FNet system is an innovative 2-way radio system that has been specially developed to reliably capture properties with high endpoints density. The system enables measurement data of any type to be collected in an efficient, reliable and secure way. The EquaScan FNet system enables all endpoints belonging to the EquaScan family to be integrated. An EquaScan FNet system consists of a coordinator and can be extended with up to 19 routers. This means that also larger building installations can be covered efficiently. The coordinator can be ordered in 2 versions: battery or mains powered.

## Scalable

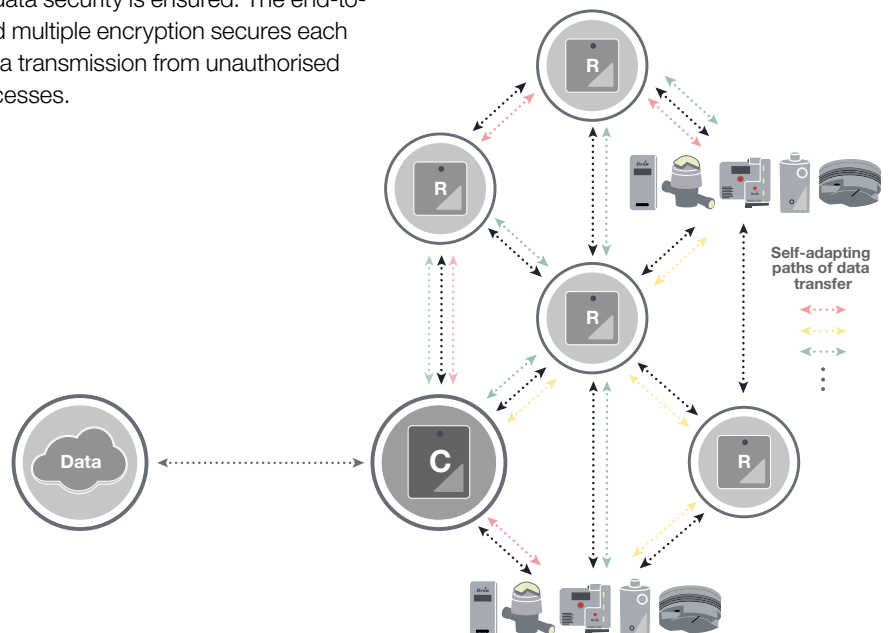
The system can collect data from up to 2,000 end points. An EquaScan FNet system is a self-adaptive network topology and thus offers optimum flexibility for a great variety of building types.

## Secure data transmission

Thanks to the use of the most up-to-date cryptographic methods, a high degree of data security is ensured. The end-to-end multiple encryption secures each data transmission from unauthorised accesses.

Set-up, extension and maintenance of a network is possible on site without software tools. Moreover, network parametrisations can be conveniently carried out wirelessly on site by means of EquaScan Master<sup>RF</sup>.

Existing EquaScan walk-by installations can be transformed into an fixed network installation via EquaScan Master<sup>RF</sup> at any time without the need to enter the apartments.



Self-adaptive network topology and dynamic communication within fixed network system.

## Technical data

### Specifications

Ambient temperature in operation	Between 0°C and +55°C
Storage temperature	+0°C to +55°C < 1 year. Recommended temperature below 30°C
Transport temperature	Between -20°C and 70°C (< 72 hours continuous; Temperature change max. ±20°C/hour)
Versions	Battery powered Mains powered
Protection type	IP43 (mounted in casing) Class II when mains powered 110V...230V AC 50/60Hz

### Radio specifications

#### Coordinator <---> Router

Protocol	Proprietary Itron protocol
Modulation	GFSK scheme (Gaussian frequency shift keying)
Frequency band	Bi-band 433/868 MHz band
Transmission power	433 MHz Transmission power max. 10 mW 868 MHz Transmission power max. 25 mW

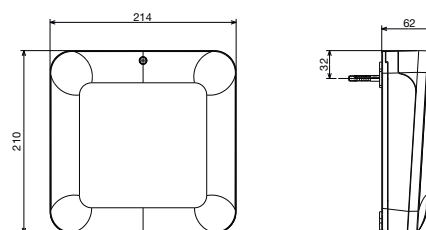
#### Coordinator <---> Server

GPRS-Modem	Quad-band for 3G/2G mode
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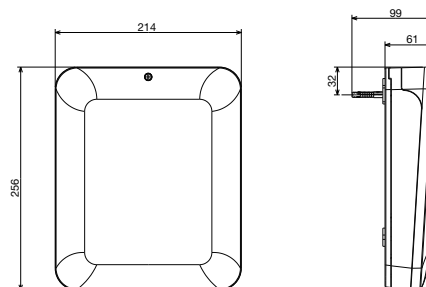
#### Coordinator/Router <---> endpoints

Protocol	EN 13757-3/-4 wireless M-BUS
Operating mode	C2-Mode
Frequency band	868 MHz band
Transmission power	Max. 25 mW

### ROUTER DIMENSIONS



### COORDINATOR DIMENSIONS



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