

ELSTER KENT/ Emeris TRC602 GSM Concentrator

Automatic Meter Reading Systems



In a fixed network, the TRC602 GSM Concentrator provides the link between a utility's servers and its AMR-enabled meters. It allows for remote reading of up to 2 000 meters per concentrator, over a large geographical area. Meters can be read in groups or individually 'on demand'.

The concentrators also collect alarm notifications (allowing for instantaneous detection of leaks and tampering) and can be used to remotely reprogram meter interface units (MIUs).

A concentrator communicates with its MIUs over a radio frequency (RF) link, and with the utility's servers via a GSM wide area network (WAN).

Several concentrators can be managed from one server.

The concentrators are powered by 220V mains electricity, and also includes battery back-up. The concentrator will signal its utility via the WAN if a power outage occurs. The concentrator's operating software is compatible with Windows with a client/server architecture.

Features:

- Long range RF transmission
- Secure, reliable radio communication
- No licence required for operation
- Rapid detection of leak, tamper and low battery alarms
- Waterproof
- Can manage up to 255 simultaneous requests

TRC602 GSM Concentrator

Specifications:

Physical Specifications

Weight	1.5kg
Dimensions	220mm H x 130mm W x 80mm D
Waterproofing	IP66 rated
Enclosure	Aluminium casing

Radio Specifications

Operating frequency	433 / 868 / 915MHz with FHSS
Transmitter	10mW for 433MHz, 25mW for 868MHz, up to 1W for 915MHz
Receiver sensitivity	-110dBm
Data Rate	Up to 32kbps
Range	Line of sight: 1km Indoors: 200m (typical)

Regulatory

Complies with EN 300-220-1 and EN 300-683 regulations	
No licence required for operation	

GSM Specifications

Operating frequency	900MHz / 1800MHz
Data transfer	SMS

Environmental Specifications

Operating temperature	-20°C to +55°C
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Power Consumption

Power source	220V AC mains supply (Solar panel kit as an optional extra)
Battery	NiCad battery back-up

Connectivity

Management	One concentrator can handle up to 255 requests from up to 8 different servers Manage several concentrators from one server 32Kb of non-volatile FRAM allows each concentrator to manage up to 2 000 MIUs
Software	Operating software works on PC/Windows with a client server architecture
TRC600	Up to 2 000, Typically 1 500

Note: The TRC components and the TRA components are NOT interchangeable

Warranty

All goods are tested and inspected prior to despatch. In the event of defects resulting from faulty workmanship or materials, such goods will be replaced/repared at our discretion, free of charge at the factory, but no responsibility will be accepted for any direct or consequential damage. This warranty covers the malfunction of a correctly installed item due to a manufacturing fault, but does not cover wear and tear considered normal at the locality of installation. Electronics warranty 1 year from date of manufacture.



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The company's policy is one of continuous improvement and the right is reserved to modify the specifications without notice

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