

ECD 210 GSM/GPRS modem

Intelligent GSM/GPRS modem



GSM/GPRS technology supported



Automatic meter reading



Power outage notification

Smart and reliable AMR

ECD 210 is an intelligent modem for data transfer between an electronic energy meter and a central station over the GSM/GPRS communication network. Working in conjunction with base computer software (BCS) it provides a cost-effective solution for automatic meter reading (AMR).

The modem can be programmed to automatically transmit SMS messages to the central station when certain metering events are detected. This extends the role of ECD 210 beyond traditional remote meter reading and into the realm of system integrity monitoring and surveillance.



Application

- GSM/GPRS-based remote meter reading (RMR) systems
- Outstation modem, connected at the meter end
- HV or LV metering installations

Benefits

- Maximum operational flexibility: it can be used with any type of electronic meter
- Increased productivity through collection of data via AMR
- Minimal installation cost
- Reduced logistical costs: ECD 210 works on single-phase or three-phase supplies
- Notification of metering events through automatic SMS messages

Features

- GSM/GPRS modem with built-in three phase power supply
- Scheduled meter reading & data storage capability
- Automatic sms messaging for metering events or alarms
- Meter connectivity through:
 - Optical communication port
 - Serial RS-232/RS-485 communication port
- Status LEDs
- SIM card provision
- Engineering plastic enclosure
- Sealing provision for security
- Wall mounting facility



Technical specifications

Electrical

Power supply input	3 x 240 V AC, 50 Hz
Power supply range	50 to 540 V AC
Surge withstand capacity	6 kV as per IEC 61000-4-5
Isolation safety	4 kV AC, 1 minute
Power supply cable	Integral lead
Antenna	Wired antenna (5 dBi) with magnetic base

Compliance

Operating frequency	Dual band EGSM/GPRS 900/GSM1800 MHz
ETSI GSM Phase 2+ standard	Class 4: 2W @ 900 MHz Class 1: 1W @1800 MHz
GPRS multi-slot class	Class 10

Mechanical

Dimensions (W x H x D)	131 x 222 x 40 mm (approx.)
Weight	0.4 kg (approx.)
Sealing	Two sealable terminals on the cover
Connections	SMA for antenna connection 9-pin D-sub (female) for connection to meter (RS-232 or RS-485 port on modem) depending on variant
SIM card*	Externally accessible Sliding tray type (with sealing arrangement) 3 V interface
Battery	For modem working in absence of mains supply, available in selected variants

Environmental

Ingress protection	IP55
Temperature	-10 °C to +55 °C (operating)
Humidity	95% non-condensing

Features

Automatic SMS facility	On events for Secure make meters On power outage for any type of meter (available in modem with battery)
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* A data-enabled SIM card must be procured separately from the service provider for the location where device is to be fitted.

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