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 ºC to +55 ºC (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)

* A data-enabled SIM card must be procured separately from the service provider for the location where device is to be fitted.