ECD 310

Intelligent GSM/GPRS meter powered modem

GSM/GPRS technology supported

Automatic meter reading

Power outage notification

Smart and reliable AMR

ECD 310 is a modem for data transfer between an electronic energy meter and a central station over the GSM / GPRS communications network. Working in conjunction with base computer software (BCS) it provides a cost-effective solution forremote automatic meter reading (AMR).

It is designed for fitting under the meter's terminal cover, providing a neat, tamper-resistant installation.

Application

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

Benefits

- Easy installation under the meter's terminal cover
- No need for external power supply input
- Tamper-resistant installation under utility sealed cover

Features

- Meter-powered GSM/ GPRS modem
- Meter connectivity through serial RS-232 communication port
- Status LEDs
- SIM card provision
- Engineering plastic enclosure
- Compact size: fits under the meter's terminal cover

SECURE
energy together

Technical specifications

Electrical

Power supply input	Powered from RS-232 port of meter
	RJ-45 variants: 3.7 V @ 600 mA
Antenna	Stub antenna (3dBi)

Compliance

Operating frequency	Dual-Band EGSM / GPRS 900 / GSM 1800MHz
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)	58 x 75 x 37 mm (approx.)
Weight	0.1 kg (approx.)
Sealing	Two sealable terminals on the cover
Connectors	SMA for antenna connection (with flying lead)
	RJ-45 for connection to meter
	(RS-232 port on modem)
SIM card*	Externally accessible
	Sliding tray type (with sealing arrangement)
	3 V interface

Environmental

Temperature	-10 ˚C to +55 ˚C (operating)
Humidity	95% non-condensing

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

Specifications are subject to change without prior notice