

# 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 for remote 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



## 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.

#### Australia

sales\_australia@securemeters.com  
www.securemeters.com/au

#### Dubai

sales\_middleeast@securemeters.com  
www.securemeters.com/me

#### Europe

sales\_europe@securemeters.com  
www.securemeters.com/eu

#### India, SE Asia, Africa

sales\_india@securemeters.com  
www.securemeters.com/in

#### UK

sales\_uk@securemeters.com  
www.securemeters.com/uk