The link in your smart solution

Data Concentrator Unit (DCU)

It all comes together in the form of Conlog’s Data Concentrator Unit (DCU). An integral link between the front and head-end system, the DCU is responsible for the routine collection, storage and communication of metering data. The DCU is a primary means of remote communication and is capable of reading and writing data to and from metering devices.

Packed with features, the DCU performs various activities as required by the AMI System. These include meter discovery, meter reading, remote disconnection, reconnection of meters and load management processes. In addition, the DCU provides up to date reporting on status changes such as tamper detection in the metering device and is capable of delivering tokens on request.

Communication problems are a thing of the past as the DCU has the ability to collect and store data for subsequent retrieval. Diagnostic features include communication of critical changes to the AMI back end system, through the recording of system logs.

Features

> Collection, storage and communication of metering data
> Up to date reporting of status changes
> Recording of system logs for diagnostic purposes
> Automatic discovery of new meters
> STS Token delivery
> Remote disconnection and reconnection of meters
> Automatic reconnect upon link failure
### Electrical ratings
- **Nominal voltage (Un)**: 127 / 230 Volts AC (50 / 60Hz)
- **Nominal voltage range**: 85 to 265 Volts AC
- **Minimum start up voltage**: 85 Volts AC
- **Withstand voltage**: 440V / 48 hours
- **Current Rating**: 47mA
- **Power**: 4 watts

### Battery
- **Battery type**: LiPo (Lithium Polymer) > 1.8Ah Rechargeable
- **Battery voltage**: 3.6 Volts
- **Operating voltage range**: 3.3 to 4.2V
- **Battery life span**: 5 years

### Communication
- **Ethernet**: 10 / 100 Full-duplex with auto-negotiation
- **IPv4**: DHCP, DNS or static IP configurations
- **Plug-in GSM module**: Quad-band GSM850, EGSM900, DCS1800, PCS1900
- **Integrated antenna**: Conlog proprietary
- **Protocol**: 128-bit encryption with CBC

### Functionality
- **Automatic discovery of electricity meters**
- **Remote meter reading**
- **Event notification (metering events)**
- **Tamper detection**
- **STS Token delivery**
- **Demand side management (Load shedding)**
- **GPS for time synchronisation and location**
- **Remotely Upgradeable**
- **Battery backed-up real time clock**
- **USB interface for system configuration and data retrieval**
- **Battery backed up – Last gasp communications support**
- **Plug-in communication module slots - upgradeable**

### Installation
- **Footprint**: Wall or DIN Rail mounted
- **Insulation class**: Double insulation

### Environmental
- **Standard operating temperature**: -10°C to +55°C
- **Storage temperature**: -25°C to +70°C

### Packaging
- **Units per carton**: 1
- **Total weight (incl. box and accessories)**: 600g