

BROCHURE

DRED-Series

Dynamic Ratings

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Demand Response Device

ConnectGrid™ Smart Infrastructure Solution

Enable Intelligent Automatic Control

Applications

The Demand Response Device (DRED) provides a flexible IoT interface to allow remote control of supported network loads and distributed generation. Control output options include a dry contact relay output or AS4755/AS4777 compliant digital outputs, enabling control of equipment such as:

- Air conditioners
- Swimming pool pumps
- Battery storage
- Electric water heaters
- Electric vehicle chargers



As part of the Dynamic Ratings ConnectGrid™ Smart Infrastructure Solution, the DRED offers flexibility for demand response applications, and enables intelligent automatic control of connected distributed energy resources. This allows utilities to balance generation and load.

Features

The DRED has been designed to take advantage of the latest Low-Power Wide-Area Network (LPWAN) communication technologies. This includes the ability to leverage your existing AMI communications investment or take advantage of the latest Telecommunication Provider offerings including Cat M1 or NB IoT.

LPWAN technologies offers decreased power usage, increased range and lower capital and operational costs than traditional communication technologies that are being phased out (e.g. Dial-up / 3G etc.).

Unlike offerings that receive commands from a propriety central control, the DRED is centered on a secure, open standards enterprise architecture. The architecture supports cloud-based IoT platforms such as AWS or Azure, or on-premise servers.



DRED enables control of existing A/C systems

Example Applications

Control Air Conditioners and Pool Pumps

Control loads in real time using voltage measurements from around the network or load measurements from distribution network substations. A closed loop demand response improves network utilization.

Integrate with a DERMS or ADMS System (via DNP3 or IEEE2030.5)

Integrate controllable load and generation into your automated network control and management systems. Shed load during system events or faults and keep the lights on.

Manage load when directed or using local schedule

The built-in scheduling engine allows users to automate local control of loads which can reduce opex costs. Users can override the system as necessary.

Product Specifications

LPWAN Back-haul Communications:	Cellular: LTE Cat M1 / Cat NB1 (NB-IoT) LoRa
Antenna:	External SMA Connector, Antenna supplied with unit.
Dimensions:	55mm (W) x 111mm (L) x 37mm (D)
Temperature:	-20°C to +80°C
Power:	Supplied from connected device (as per AS4755)
Battery:	N/A
Connector:	RJ45
Mounting:	Mounting screws, cable ties, or magnetic
Local Communications:	AS4755 Compliant RJ45 Connector Bluetooth LE 4.2. Used for local commissioning or live data or integrating with other Bluetooth devices / sensors. Options for dry contacts, analog and digital inputs.



An ISO 9001, ISO 14001, ISO 27001, ISO 45001 Certified Company.

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