Working smarter with POWERnova, your AMI solution:

All our smart solutions have come together in one perfect fit; the much anticipated arrival of Conlog’s AMI system POWERnova is here! Conlog has redefined the concept of an AMI system, surpassing the market expectations by far.

Built on the (09) platform, Conlog’s advanced metering infrastructure (AMI) solution, POWERnova, is designed to revolutionise the metering and vending arena. POWERnova is an infrastructure for two-way communication between a meter and the Utility. The objective of an AMI system is to provide Utilities with real-time data about energy consumption and allow them to remotely manage their metering devices. It also allows consumers to make informed choices about their energy consumption.

POWERnova comprises two distinct functional areas: the front end components that are responsible for the collection, storage and communication of data from the metering devices; and the head end components that retrieve and manage this data. Data is communicated wirelessly to and from the meter via data concentrator units (DCU’s) connected to a suite of management tools at the head-end, providing utilities with the tools to manage their prepayment metering infrastructures. For the utility, the benefits are unparalleled, remote tamper detection and load management is now possible as there is two-way communication between the front and back end system.

Benefits:

> Meter management
> Route tokens directly to the meter: credit, management and STS tokens
> Consumption profiling of individual/group of meters
> Energy balancing: identification of possible fraud
> Remote meter management
> Demand side management: load restriction to protect the Grid from overload
> DCU management
> Event notification: Meter and DCU events
AMI hardware components

wBEC44(09) The wBEC44(09) is an integrated wireless meter and a flagship product in the (09) range. The compact DIN rail meter is packed with features to enhance customer satisfaction, whilst providing the valuable data needed by utilities worldwide. Added to this is the ability for the meter to operate as a prepayment or post-payment meter, depending on the utility’s requirements. The greatest benefit and cost saving factor is that through the use of integrated radio frequency (RF), the meter is not subject to line interference and won’t require the addition of costly filters, making this a simple, quick and cost effective solution.

wUIU(09) Traditionally split meters have required wiring between the metering device and the user interface keypad. With Conlog’s wireless user interface unit (wUIU), wireless communication is possible through the use of radio frequency (RF). Users are assured of a working solution with no interference that can operate comfortably at distances of typically 100 metres. An added benefit is that the wUIU is compatible with Conlog’s extensive range of split meters.

wFST(09) The wireless Field Service Terminal (wFST) is a portable device, used by maintenance personnel for drive-by meter interrogation. This hand held device allows the operator access to a host of features, including two-way communication and capturing geodata of meters.

WEX(09) The Wireless Extender (WEX) is used in some installations, to increase the range between the wUIU and the meter. This is achieved by installing a WEX between the meter and the wUIU, to ensure consistent communication between the devices. With the use of a WEX, the range between devices can be extended up to 150m (line of sight), supporting up to 24 devices.

WMI(09) Non wireless split meters can easily be integrated into the POWERnova structure through the use of the Wireless Meter Interface (WMI) which allows a retrofitted meter to communicate through RF to a wUIU. The meter is hard wired to the WMI, which communicates to the wUIU.

DCU(09) The Data Concentrator Unit (DCU) is 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, POWERnova. 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.

wBEC62(09) Conlog’s new BEC62 integrated wireless meter range provides the building block for a revolutionary new smart solution. These meters are packed with features to enhance customer satisfaction, whilst providing the valuable data needed by utilities worldwide. Added to this is the ability for the meter to operate as a prepayment or post-payment meter, depending on the utility’s requirements. The greatest benefit and cost saving is that through the use of integrated radio frequency (RF), the meters are not subject to line interference and don’t require the costly addition of filters, making this a simple, quick and cost effective solution for today and tomorrow.

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