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## Technical overview



### AUTOMATIC METER READING

#### Accuracy

Approved and certified by The Office of Gas & Electricity Markets [Ofgem] to meet the requirements of the EU Measuring Instruments Directive [MID]

#### Reference Standards

**CENELEC EN 50065-1**  
EU standard for power Line Carrier data transmission

#### IEC EN61036

EU approval & conformity

#### Quality

All meters are manufactured under a quality system approved to BS ISO 9001: 2000

**BS EN 50065-1 1991**  
EU standard for meters equipped with Power Line communications

#### Power Supply

Rated 230V/50Hz, Single Phase

MID 2007-Measuring Instruments Directive

#### Meter Dimensions

Height: 172mm  
Width: 126mm  
Depth: 80mm

*Energy Controls reserve the right to change specification without notice.*

*For a detailed specification document on this product please contact Energy Controls.*



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## AUTOMATIC metering reading *System*

A powerful remote metering system for up to 3 utilities providing direct on-line communication with meters using the existing electricity cable network



Suppliers of  
**WORLD CLASS**  
Meters & Metering  
**SYSTEMS**

**METERING**  
Measuring  
& Managing **RESOURCES**

DOMESTIC & LEISURE

MEETING THE EVER INCREASING DEMANDS OF THE UTILITIES & ENERGY SUPPLIERS



STANDARD FEATURES

- Automatic Meter Readings
- Disconnection/Reconnection of electricity supply
- Credit or Pre-payment meter all in one
- Load limiting
- Half-hourly Profiles
- Additional inputs for Water/Gas or Heat meters etc
- Direct online communication with individual meters
- Integrated Billing system



“Intelligent metering with the highest standards of accuracy, quality & reliability form the basis of our aim to deliver enhanced customer satisfaction”.

‘MainsTalk’ consists of the following components:-

THE METER

The ‘MainsTalk’ meter uses Power Line Carrier (PLC) technology to transmit digital data along the existing mains electricity cables; installation is therefore identical to that of conventional meters and there is no need for expensive additional wiring. The meter has an internal time switch & integral 100 Amp contactor and can be remotely switched to operate either as a kWh Credit Meter or in pre-payment mode.

via PSTN, GSM or Ethernet modem connection making it available for instant analysis the following morning.

THE REGIONAL CONTROLLER

This is the system software installed on an IBM compatible PC using the Windows operating system. The Regional Controller acts as the system control centre and allows users to take full advantage of many powerful operations remotely, including meter configuration, disconnection / reconnection and direct meter enquiries etc. The software also incorporates many useful reports for financial analysis and audit purposes.

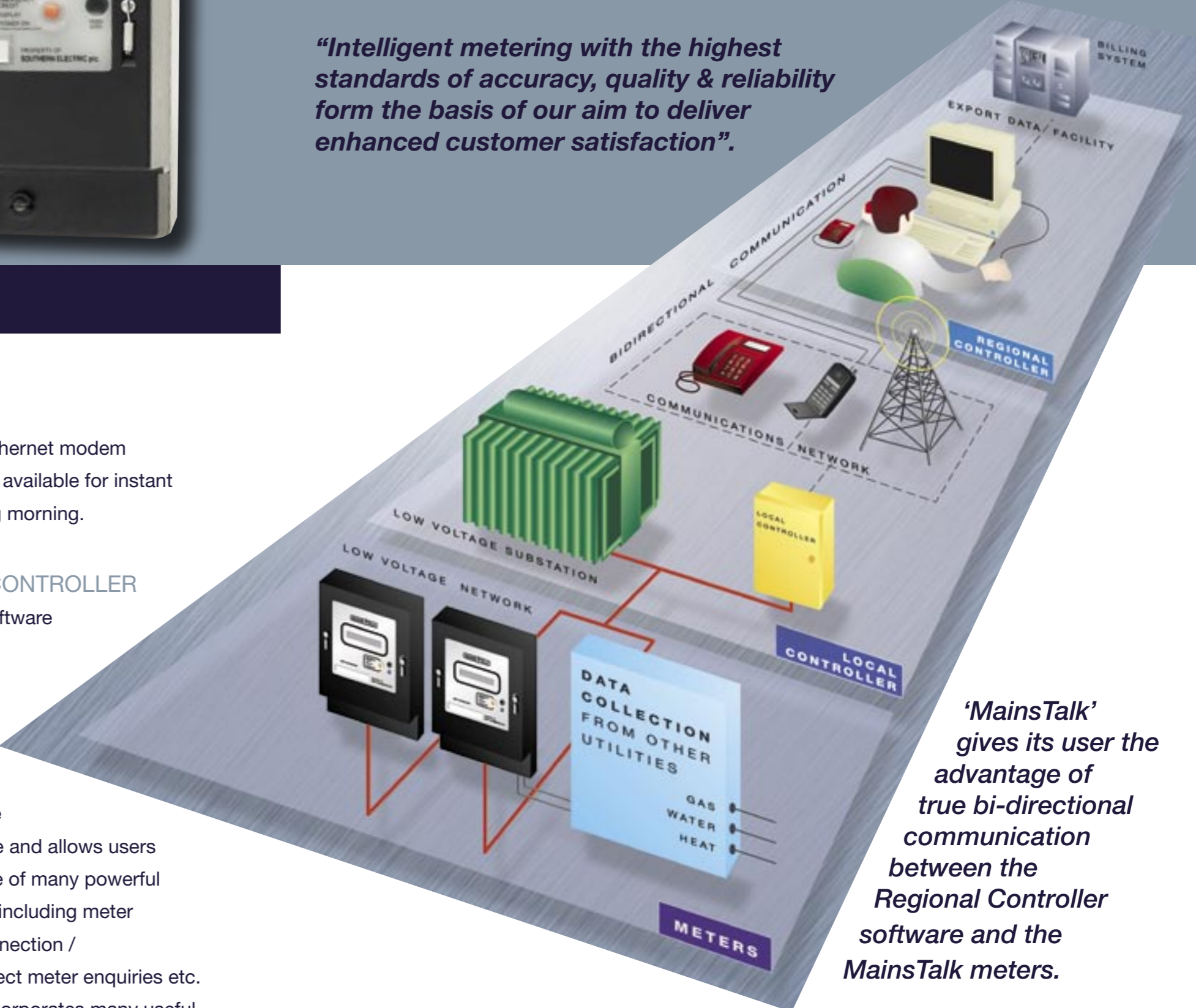
THE LOCAL CONTROLER

This is the data concentrator connected to all phases of the low voltage network. The Local Controller automatically collects and stores valuable data such as meter readings, half-hourly profiles and payment transactions etc. This information is then automatically downloaded to the customer’s PC overnight

The ‘MainsTalk’ Automatic Meter Reading (AMR) system is the most adaptable metering system available in today’s rapidly changing energy supply market.

‘MainsTalk’ has been developed to the highest specification in order to meet the increasing demands of metering operations for the Utilities, Energy Suppliers and sub-metering users.

‘MainsTalk’ provides secure two-way communications over the existing electricity cable network; installation of ‘MainsTalk’ is therefore simple and cost effective.



‘MainsTalk’ gives its user the advantage of true bi-directional communication between the Regional Controller software and the MainsTalk meters.