



## KENT (ELSTER) DATA-LOGGER

### PRIMUS

### AMR EMERIS PRIMUS REMOTE METER READING PACKAGE



#### Part No. PRIMUS

#### RADIO MODULES, USB INTERFACE READING DEVICE & SOFTWARE

The Elster AMR Emeris Primus package is a cost effective way to get started with AMR technology making meter reading easier, safer and virtually on-demand.

The package is supplied with 10 radio transmitter modules (this can be scaled to your requirements) which are connected to the pulse output of the meters and a USB modem receiver which can be connected to a PC or laptop (Bluetooth option for PDA devices) and an all-in-one modular software application for system configuration, meter reading and data management.

All that you need to start reading meters remotely is shipped to you in a box, together with simple to understand quick start guidelines to help you set up your AMR system in a few hours. No need for specialist knowledge or special tools.

#### Features & Benefits

- A cost effective way to get started with AMR.
- Read meters easier, more safely & virtually on-demand.
- Rapid detection of leak, burst & tamper.
- Long range secure FR transmission using licence free frequencies.
- Radios with long battery life & data-logging capabilities.
- Compatible with most pulse meters.
- Data management software with consumption presented in tabular & graphical fashion.
- Fully scalable system, just add more radios.

#### **RADIO TRANSMITTER SPECIFICATIONS**

Dimensions	120mm x 40mm 30mm
Operating Frequency	433MHz/868MHz
Transmitter	10mW for 433MHz, 25mW for 868MHz
Receiver Sensitivity	-10dBm (with BER of 1% at 9.6kbps)
Communication	1-way of 2-way, fixed frequency or FHSS
Data Rate	Up to 32kbps
Range (up to)	1km; Indoors: 200m (typical)
Operating Temperature	-20 to +70°C
Power Source	1A sized Lithium thionyl chloride batteries
Battery Lifetime	Typically over 10 years
Complies with EN300-220-1 & EN300-683 regulation	

#### **USB MODEM RECEIVER SPECIFICATIONS**

Dimensions	96mm x 47mm 24mm
Frequency	433MHz/868MHz, ISM band with FHSS
Type Of Transmission	Bi-directional
Sensitivity	110dBm at 9.6kbps
Transmitting Power	10mW for 433MHz, 25mW for 868MHz
Operating Temperature	-20 to +70°C
Optional Interface	RS232
Complies with EN300-220-1, EN300-683 & RTTE 99/5/EC	

#### **ECM SOFTWARE FOR CONFIGURATION (MODULE C)**

Number Of Channels	1 to 4 depending on radio module
Pulse Value	Depending on meter
Initial Meter Reading	Programmable
Data Memory	Monthly, Weekly, Daily
Alarm Settings	Leakage, Burst, Backflow, Tamper
System Requirements	Windows XP with SP2, Microsoft .NET Framework 1.1

#### **ECM SOFTWARE FOR DATA MANAGEMENT (MODULE D)**

Measuring Point	Name, Address, etc.
Meter	Media, Installation data, Type, etc.
Meter Interface Unit	Radio address, Repeater, Type, etc.
Print	Consumption information, Invoice
History	Graphical visualization of meter reading
Import/Export	Text files
System Requirements	Windows XP with SP2, Microsoft .NET Framework 1.1

#### **BLUETOOTH RECEIVER SPECIFICATIONS (optional)**

Dimensions	88mm x 49mm 24mm
Bluetooth Range	20m
Used Standard	PPP via emulated serial interface
Bluetooth 1.1, Integrated class 2, F2MO3AC2 Module	