

# EMERIS Primus

## Specification Sheet



### What's included?

- Your radio modules – the number of modules can be scaleable to meet your needs
- Emeris hand-held unit
- Reading interface USB or Bluetooth (optional)
- All-in-one modular software application for system configuration, meter reading and data management

### Benefits

- Read meters easier, more safely and virtually on-demand
- Rapid detection of leak, burst and tamper
- Easy to install and set up
- No need for extensive technical knowledge
- A cost effective way to get started with AMR

### Features

- Long range RF transmission using licence-free frequencies
- Secure reliable communication
- Radios with long battery life and datalogging capabilities
- Modular designed software
- Data management with consumption presented in tabular and graphical fashion
- Mobile meter reading via PC or PDA (optional)
- Fully scalable system, just add more radios



## System Specifications

### The radio module options



#### Radio Specifications

Operating frequency:	433MHz/868MHz/915MHz
Transmitter:	10mW for 433MHz, 25mW for 868MHz, up to 1W for 915MHz
Receiver sensitivity:	-110dBm (with a BER of 1% at 9.6kbps)
Communication:	One-way or two-way, fixed frequency or FHSS
Data rate:	Up to 32kbps
Range (up to):	1km; Indoors: 200m (typical)
Data transmitted:	Current index, leak, burst, backflow and tamper alarms
Data logging:	Up to 24 previous periodic readings (option for 2100 values also available)
Compatibility:	Virtually any meter type and make

#### Regulatory

Complies with EN 300-220-1 and EN 300-683 regulations  
No licence required for operation

#### Reference

Contact Elster for more detailed brochures and specification sheets of the various radio module options.

### The hand-held unit

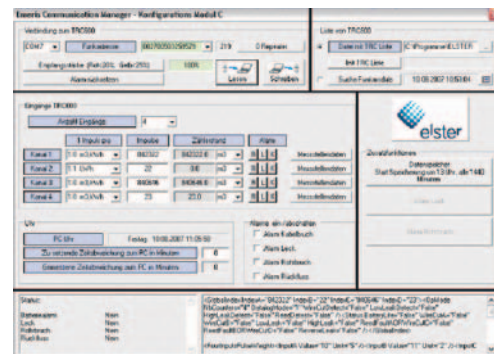


#### Specifications

Product:	Emeris 9900 hand-held unit
Communications:	433/868MHz internal radio card GPRS, Bluetooth, USB via cradle
Type of transmission:	Bi-directional
Meter location aid:	Internal GPS
Meter installation aid:	Barcode reader
Software:	See ECM Module M next column
Contact Elster for full brochure and specification sheet of the Emeris 9900 hand-held unit	
Other options:	USB radio module for PC Bluetooth beltbox for existing hand-held unit
Contact Elster for more details on these options	

### The software

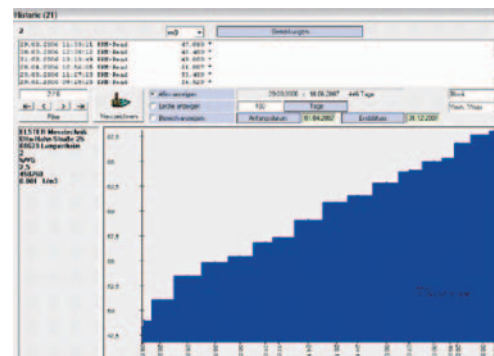
#### ECM module C for configuration



Configures radio module parameters, for example:

Number of channels:	1 to 4 depending on radio module
Pulse value:	Depending on meter
Initial meter reading:	Programmable
Data memory:	Monthly, weekly, daily periodic readings
Alarm settings:	Leakage, burst, backflow, tamper

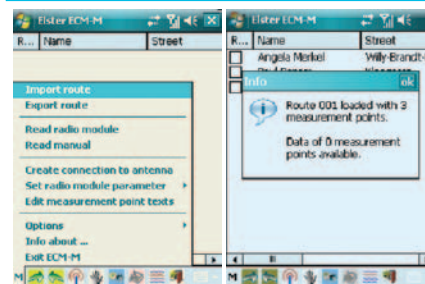
#### ECM module D for data management



Manages metering data, including:

Meter end-point:	Name, address, etc.
Installation:	Location, installation data, type, etc.
Meter interface unit:	Radio address, repeater, type, etc.
Printing:	Consumption information, invoices
History:	Graphical visualisation of meter readings
Import/export:	Metering data in various formats

#### ECM module M for mobile reading (optional)



Meter reading:	Mobile data collection from radio modules Manual reading also available
Configuration:	Same as module C

#### System requirements

Windows XP with service pack 2 for PC  
Windows Mobile 6.0 or above for hand-held computer  
Microsoft .NET Framework 1.1