



# GPRS M-Bus Master CMe 2100

GPRS M-Bus Master for remote reading of M-Bus networks

The GPRS M-Bus master has been designed to provide utilities and service companies with the latest state of the art remote reading technology for M-Bus networks.

The CMe2100 is a DIN-rail mounted compact device and provides a flexible and cost-effective GSM/GPRS M-Bus AMR solution. Regarding performance and functionality it is comparable to the integrated GPRS option board CMe2100 for Itron CF-family range of products. The master is configurable by SMS and can receive software updates over the air. Its flexible and versatile design makes it simply the most powerful GSM/GPRS solution on the market.

## FEATURES AND BENEFITS

- » Ease of installation
- » Advanced features
- » Flexible communication interfaces

## Benefits of GPRS solution

The standard open protocol design allow for fast integration into existing billing and reporting systems. Transparent M-Bus communication with GSM and TCP works with any software supporting the M-Bus standard. The CMe2100 can send meter values using FTP, HTTP and e-mail.

The e-mail report feature prevents firewall and IT-structure implementation problems and reports can be configured for better readability.

## Ease of installation

The CMe2100 is a compact rail mounted M-Bus master for up to 8 M-Bus meter with integrated GPRS modem and preequipped with the GSM stub-antenna. The flexible design makes it stackable with extender modules CMeX to expand the M-Bus capacity up to 256 M-Bus slaves. The CMe2100 is ready to use and can easily be programmed in field by SMS commands. M-Bus meter are detected by wildcard search mode. Other parameters e.g. logging- and data transfer- intervals, FTP or e-mail settings are configurable.

## Powerful and Advanced Features

The GPRS M-Bus master fits into almost any kind of meter collecting system, i.e. remote reading for M-Bus compatible meters, water meters, gas meters, temperature meters, heat meters etc. The CMe2100 has the following key capabilities:

- » Provide M-Bus master functionality for 8 M-Bus meter.
- » Internal IR interface to stack M-Bus extender modules CMeX to connect up to 256 M-Bus slaves.
- » Read and store meter values from any meter following the standard M-Bus protocol.
- » Serves as M-Bus data-logger with memory space for up to 5000 meter readings.

- » Collect meter values using E-Mail, FTP, HTTP, SMS, Transparent GSM and TCP.
- » Send configurable report templates to enable manufacturer specific value reports, system reports etc.
- » Configurable using SMS, HTTP and telnet.
- » Remotely updatable application, firmware and resources using Java™ standard OTAP, preventing unnecessary service calls.

## Flexible Communication Interfaces

The CMe2100 GPRS M-Bus master combines multiple state of the art communication interfaces for flexible system integration:



E-mail reports



HTTP post



FTP file transfer



SMS configuration



Master- and Logger functionality

## Technical specifications

### GSM / GPRS Specifications

Frequency	Quad Band GSM 850/900/1800/1900 MHz
GSM data	Up to 14.4 kbps, V.110, non transparent mode
GPRS data	Up to class 12

### Communication Interfaces

E-mail	Using SMTP
FTP	Standard FTP client
HTTP	Standard HTTP and HTTPS client, POST & GET
Transparent M-Bus	GSM GSD
Transparent M-Bus	Static IP TCP

### Functional Specifications

Protection class	IP 20
Dimensions	100 x 65 x 36 mm
Weight	120 g
Mounting	DIN rail
Power supply	100-240 VAC, 50/60 Hz
Power consumption	< 2.5 W max.
Operating temperature	5°C - 55°C
Storage temperature	0°C - 55°C
Usage	Indoor use only

### M-Bus Master Specifications

M-Bus standard	EN 13757-2 / -3. Full M-Bus decoder implemented
M-Bus baudrate	300 and 2400 baud
Max. M-Bus devices	8 unit loads / can be extended by CMeX Extenders
Max. cable length	1000 m
M-Bus connector	Pin terminal. Solid wire 0.6-0.8 Ø mm

### M-Bus Logger Functionality

Data memory	1.3 MByte
Av. no. of stored readings	5000
Available logger intervals	1, 5, 10, 15, 20, 30min, 1h, 12h, 1d, 1week, 1month

### Ordering Information

Type	Reference N°
GPRS M-Bus Master for 8 M-Bus devices	6009000006
M-Bus Master/Extender CMeX10S for 32 slaves	6009001006
M-Bus Master/Extender CMeX11S for 64 slaves	6009001106
M-Bus Master/Extender CMeX12S for 128 slaves	6009001206
M-Bus Master/Extender CMeX13S for 256 slaves	6009001306
GPRS M-Bus Master wall-mount antenna	6009000106

## Accessories

M-Bus networks can be extended by stacking CMeX extender modules to the CMeX2100 via the internal IR interface. Maximum 4 extenders can be stacked at the rail-mount side by side. Extender modules are available with following capacities:

- CMeX10S for 32 M-Bus slaves
- CMeX11S for 64 M-Bus slaves
- CMeX12S for 128 M-Bus slaves
- CMeX13S for 256 M-Bus slaves



A wall mounted antenna might be suited to enhance GSM performance.



-Wall mounted GSM antenna



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### ITRON METERING

Allmess GmbH  
Am Voßberg 11  
23758 Oldenburg i.H.  
Germany

**Phone:** +49 4361 625-0  
**Fax:** +49 4361 625-250