



## Gipsy M-Bus LON Gateway

M-Bus, LON and OPC Server in one Device

For mixed installations of LON and M-Bus systems the Gipsy M-Bus LON Gateway is a powerful converter between both. The integrated OPC server makes the data as well available to visualization systems.

Simple and quick configuration is important in putting to operation a gateway. Therefore this device offers pre-defined templates of different M-Bus devices in its PC based configuration tool. This list can of course be easily extended. Especially helpful are the M-Bus to LONWORKS mappings already defined in the templates. Time consuming entry of type conversions is not necessary.

One LonMark object is defined in the LONWORKS interface for each M-Bus device, making it easy to identify the information from the LON side. An additional status variable is stored with the M-Bus data. It serves to monitor the communication status with the device. Configuration properties for periodical transmission of values are implemented as well.

As the names of the network variables are defined in the device library, they have not to be entered individually for each M-Bus value to be converted. The names of the network variables and the LonMark object include the M-Bus device address, realizing a simple allocation.

Configuration thus ends up in defining how many M-Bus devices of a type are installed and entering their addresses. Which values are to be mapped to the LON side is selected by mouse clicks. Finally the configuration tool generates the gateway parameters and allows download into the Gipsy M-Bus LON Gateway. The configuration tool can of course display the values of the M-Bus devices.

Accessing M-Bus as well as LONWORKS data can be done by means of the OPC server implemented on the device. The OPC data take care of the communication status of M-Bus and LONWORKS values. OPC based visualization system thus won't need a separate OPC server.

- Easy and quick parameterization
- High-performance M-Bus-LON gateway
- Integrated OPC Server for M-Bus and LON
- One LonMark object for each M-Bus device
- Status monitoring of M-Bus devices
- Robust embedded PC

### Specifications

<b>Device</b>	Gipsy embedded PC, 16 MB DRAM, 8 MB flash memory, real time, clock, watchdog
<b>Interfaces</b>	
<b>LONWORKS interface</b>	NEURON 3150, 10 MHz, FFT-10 transceiver
Features	voltage monitoring, service button, ~ LED up to 4095 NVs one LonMark object per M-Bus device
Connector	3-pin screw-plug connector
<b>Ethernet</b>	10 Base T, RJ45
<b>M-Bus Interface</b>	EIA-232 via M-Bus Interface converter up to 127 devices
<b>OPC Interface</b>	OPC Data Access 2.05a OPC browser hierarchical and flat
<b>Power Supply</b>	24 V AC / DC ±15%, 5 W approx.
<b>Dimensions &amp; Environmental Conditions</b>	
Dimensions	165 x 105 x 45 [mm], 10 mods accord. to DIN 43880
Mounting	top hat rail (EN 60715: 35x15, 35x7,5)
Material	aluminum
Temperature	operating 0 – 50 °C storage -10 – 60 °C
Humidity	class F accord. DIN 40040 (15– 95%), no condens.
Protection	IP 20

### Requirements

<b>For configuration tool</b>	PC with Windows os 500 MHz Pentium III 128 MB RAM, 32 MB free disk space Ethernet interface
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