

IC-M12

M-Bus pulse storage module

Applications

The IC-M12 pulse storage module is used to connect consumption measuring devices to the M-bus system. Up to 12 potential-free pulsers (reed contact, opto-coupler, open collector) can be set up as full-value M-bus slaves. All pulse inputs can be addressed via their own primary or secondary addresses.



Features

- Liquid crystal display and four buttons for user interaction
- Load profile synchronization either based on system time or external pulses
- Complete data preservation in the event of a power outage
- Counter reading, pulse value and medium can be adjusted
- Complete parameterization via the M-Bus
- Two communications interfaces (M-Bus and RS232C)
- Support rail fitting in accordance with EN 50022

Your benefits

- Generates load profiles and automatically records the values at the end of the month
- Option of parameterizing pulse inputs as status inputs with HT/LT switching or as synchronization inputs
- Can analyze and supply an external DCF77 radio receiver to synchronize the system time
- Configuration and querying of measured values directly in the device or through the M-bus
- Has a memory depth of 4096 load profile values with time stamps for each channel

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Functional description

The IC-M12 pulse storage module is used to connect consumption measurement devices, such as electricity, gas, water or heat meters, to the M-bus system. This requires the measuring devices to have a pulse output. The user can use the program provided to configure the pulse storage module to convert the pulses recorded into kWh or m³ and output the results through the M-bus system.

The additional functions available to the user by the IC-M12 include the formation of a load profile and the automatic recording of the values at the end of the month. The voltage supply to the IC-M12 is provided by an internal long-range power supply, giving the user the option of connecting an alternative power source via an external power input. This means that, even if the mains power fails, the pulses can continue to be recorded and the load profile values and the stored values can still be captured.

Technical specifications

Bus system			M-Bus (EN 13757-2/3)
Number of counters			12
Speed	Baud		300, 2400, 9600
Addressing			Primary and secondary
Standby current	I	mA	1.25 - max. 1.5
Supply voltage	U	V	85 - 265
Intrinsic consumption	Se	VA	1
Temperature range	Tb	°C	-0 ... +60
Protection class			IP 40
Weight	kg		0.2
Width	B	mm	105
Height	H	mm	90
Depth	T	mm	58
Order information			Art. No.
IC-M12			80554

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