

BIALON MB-3IC

M-Bus pulse acquisition module for up to 3 devices with zero potential pulse output



- M-Bus pulse acquisition module for connecting 3 zero potential pulse senders (e.g., Reed contacts or optical couplers)
- M-Bus interface as per DIN EN 13757, part 2 and part 3
- Configuration via M-Bus with write protect function
- Meter function in case of M-Bus failure thanks to backup power supply
- Transfer rates 300 to 9600 baud
- Overvoltage protection
- Power is supplied via the M-Bus (no external power supply is required)
- Battery backup for several days
- Housing as per EN 50022 for installation on DIN support rails

The BIALON MB-3IC pulse acquisition module lets you connect up to 3 devices with a zero potential pulse output, such as a Reed contact or relay output, to the M-Bus.

Power is supplied via the M-Bus; no external power supply is required. Thanks to an internal backup power supply, the metering function and thus the external power supply can be sustained even in case of an extended failure of the M-Bus. The prerequisite for this is that the external device does not generate a load on the pulse input. M-Bus voltage is indicated by the green Power LED; this indicator is unlit for battery operation.

Configuration of the pulse inputs (setting the pulse value, meter readings, etc.) and the M-Bus slave (baud rate, device addresses, write protect, etc.) is handled via the M-Bus using a PC-based configuration tool. The device features automatic baud rate detection.

The shield for the connecting cable to the pulse senders (if present) and the M-Bus cable shield can be patched on the device's PE terminals. Make sure that the shield cable is only connected on one side.

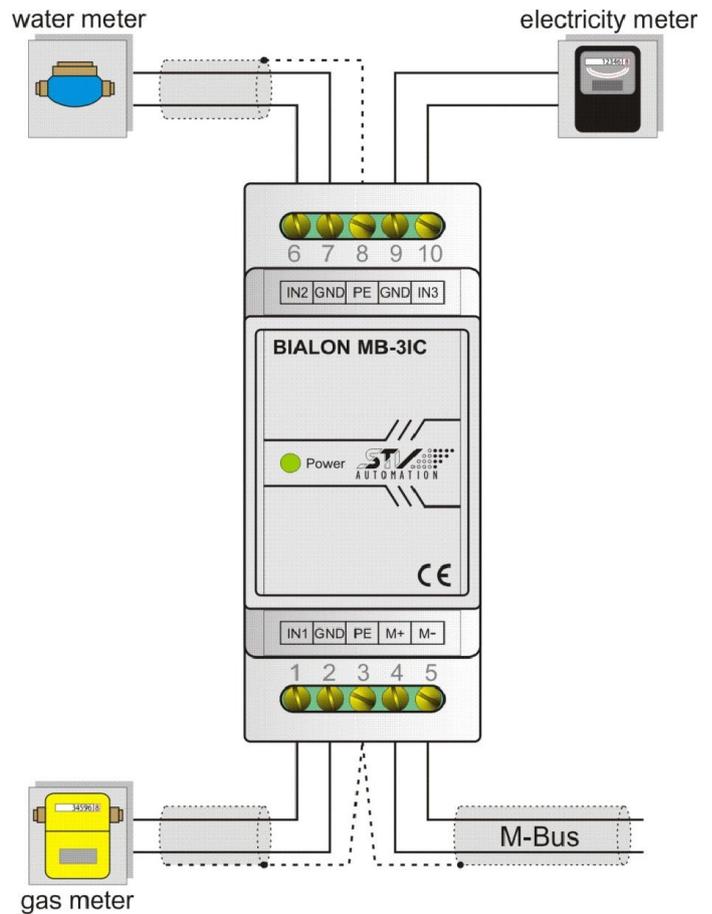
The M-Bus has polarity dependent; note the polarity on connecting the bus cable

Order details

Designation	Order number
BIALON MB-3IC	095254

Properties of the M-Bus system:

- standardised European field bus (DIN EN 13757, part 2 and part 3)
- Wire pair bus with power supply to bus nodes (M-Bus standard load = 1.5 mA)
- M-Bus is reverse polarity protected
- Acquisition of consumption data (heat, water, gas, electricity, etc.)
- Communication with M-Bus sensors and actuators supported
- Energy monitoring and optimisation
- For use in industrial and domestic applications
- No special requirements for the bus cable (installation wiring or phone wire sufficient)
- Optional wiring topology (star, tree, bus)
- Long range (up to several kilometres)
- Good availability of system components
- Good cost/performance ratio



Technical data

Supply voltage	via the M-Bus
Battery backup	approx. 2- 5 days (without load on the pulse inputs)
M-Bus transfer rates	300 ... 9600 baud
Displays	LED green: Power (M-Bus voltage present)
M-Bus connection	Terminal pairs max. 2.5 mm ²
Pulse input connection	3 terminals max. 2.5 mm ²
Operating temperature	0 ... 55°C
Relative humidity	0 ... 90 % (non-condensing)
Housing	as per EN 50022 for installation on DIN support rails, 6 separation units
Degree of protection	IP 20 as per DIN EN 60529
Dimensions (L x W x H)	35 x 88 x 57 mm (2 SU)