PadPuls M2

2-channel M-Bus pulse collector

Input for tariff switch signal

Due-date function

Power supply by the M-Bus

All pulse inputs free adjustable

Fully operable in case of M-Bus failure !

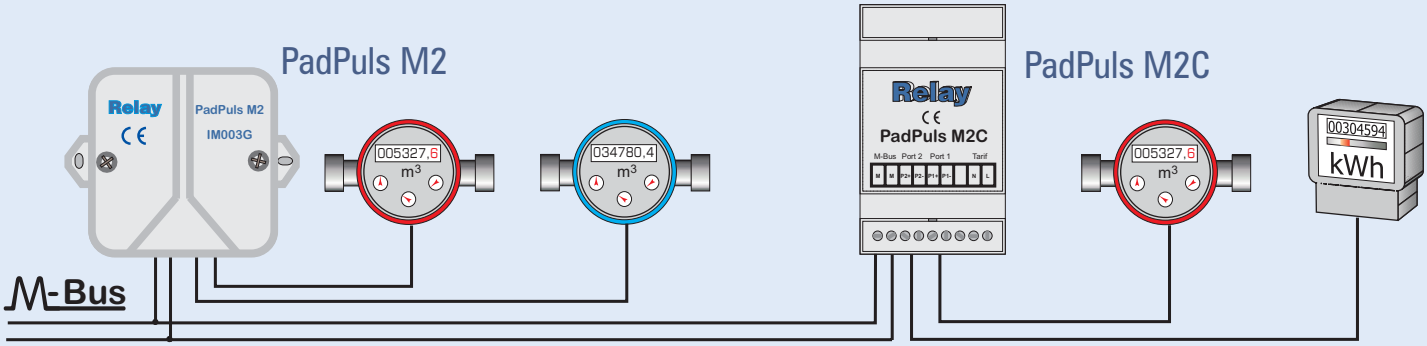
Wall or rail mounted

The devices of the PadPuls M2 series adapt up to two conventional meters with pulse output to a M-Bus system.
The two counter inputs are nearly free parameterizable and fit in already existing installations.
Optionally the user can activate a tariff function, by which energy or volume pulses can be accumulated in separate meter readings for primary and secondary tariffs. Only one pulse signal and one changeover signal for the tariff are required, for example out of a ripple control receiver from the electricity supplier.
The integrated battery ensures that the impulse adaptor is fully operable, even if the M-Bus network fails. Additional security is provided by the periodic saving of the meter readings in non-volatile memory.

Relay PadMess

Adaptable:

PadPuls M2



Function of the PadPuls M2(C)

The PadPuls M2 adapts up to two impulse meters with floating output (for example gas, water, electricity meter,...) to the M-Bus system or, in many cases, electronic So outputs as well. Both pulse inputs can individually be configured. PadPuls M2 thus acts as two stand-alone M-Bus slaves.
The supply for the impulse counting function is taken from the M-Bus. In case of a bus failure an integrated battery ensures data integrity and count operation.

An optional available battery with greater capacity allows M-Bus independent metering for several years.

Another feature of the PadPuls M2 is the due-date function. Meter data are saved separately at the preset due-date by the implemented clock with calendar function. By this, for example, annual consumption data can be obtained without additional calculation software.

The PadPuls M2C version has the same functional features as the M2, however in addition it has a tariff input for 230VAC signal (for example from a ripple-control receiver).
The PadPuls M2 is delivered in a housing for wall mounting while the PadPuls M2C housing is mounted on a DIN rail (3TE).

Technical data

Power supply:	by M-Bus, switches automatically to battery in case of bus failure
Bus operation:	max. 1.5mA (1 unit load),
Battery operation:	current taking max 50µA
Battery expectancy 0.23Ah:	10 years at max. 18 failure days p.a. (changeable coin-type battery)
Battery expectancy 1.35Ah:	10 years at max.110 failure days p.a.
Temperature range:	0 .. 55 °C
Pulse inputs:	2, individual adjustable
Contact voltage:	2.5V .. 3.6V
Contact current:	30µA
Debouncing time:	5ms
Cable pulse generator:	max. 10m

Requirements to the contacts of the impulse generators:

Potential:	floating
Resistance:	open > 1MΩ, closed < 2kΩ
Contact duration, pause:	min. 30ms
Pulse frequency:	max. 14 Hz
Tariff signal:	floating (data see above) Or: 100..250VAC (PadPuls M2C)
M-Bus protocol:	according to EN1434-3
Transmission rate:	300, 2400 baud (autom. detection)
Case mounting:	rail (DIN-EN 50 022) or wall mounting
Protection type:	IP40
Dimensions (M2):	W x H x D: 80 x 80 x 52 mm
Dimensions (M2C):	W x H x D: 93 x 51 x 58 mm

Order information

PadPuls M2 (0,23Ah-battery, wall)	Art.-No. IM003G
PadPuls M2 (1,35Ah-battery, wall)	Art.-No. IM003GB
PadPuls M2C (0,23Ah-battery, rail mount.)	Art.-No. IM003GC
PadPuls M2C (1,35Ah-battery, rail mount.)	Art.-No. IM003GCB

Accessories

Delivery contains:
PC-software for 32Bit-Windows for configuration

M-Bus readout-software:
Look@M-Bus for Windows95/98/NT Art.-No. SW006

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