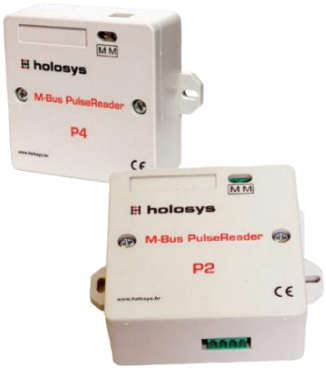
holosys



Holosys M-Bus PulseReader P2/P4

Holosys M-Bus PulseReader is a device used for collecting consumption readouts with support for two (P2) or four (P4) independent utility meters (water, gas, heat, electricity). The modules come with a non-erasable memory and a high-capacity battery in case of M-Bus power supply failure. Support for secondary addressing makes the device adequate for implementation in M-Bus systems with more than 250 M-Bus slaves.

M-Bus in accordance With EN 13757-2, EN 13757-3 and EN 1434-3

P2 / P4

Two-channel and four-channel versions

Wide temperature range

Support for meter reading on due date

KEY FEATURES

- Support for primary and secondary addressing
- device adequate for M-Bus systems with more than 250 M-Bus slaves.
- Integrated support for systems with two different tariffs. In such operating mode, one of the inputs used for pulse counting while the other for tariff switching
- Humidity: up to 70%
- The device is equipped with the function of due date meter reading. Meter data is saved separately for each input on the date defined by the user.
- High-capacity battery in case of M-Bus power supply failure
- The device also saves the data on a daily basis in a nonvolatile memory in case of battery discharge
- In case of power outage or M-Bus failure, the device automatically switches to battery power to ensure the continuity of pulse counting and data integrity
- Operating temperature range: from -20 to 60 C°

TECHNICAL CHARACTERISTICS

Pulse input data	
Input potential	floating, resistance to ground > 1MΩ
Source resistance	open > 1MΩ, closed < 2kΩ
Max. source capacity	2nF (short sampling), 12nF (long sampling)
Min. pulse duration	33 ms
Min. pause between pulses	33 ms
Max. pulse frequency	15 Hz
Input current	µA
Contact voltage	2.5V ..3.6V
Consumption	
Power supply	M-Bus powered / automatically switched to integratedbattery supply in case of power outage
M-Bus current load	1 unit load 1UL= 1.5 mA
Consumption in battery operation	30 µA (long sampling)
Battery lifetime in battery operation (25°C)	Standard: ≈ 11 month Optional: ≈ 6 years Premium: ≈ 7 years
Min. support at duration of 10 years	Standard: ≈ 32 days/year Optional: ≈ 180 days/year Premium: ≈ 210 days/year
Short sampling	Extends battery lifetime for ≈12%
M-Bus data	
Standard	EN 13757-3, EN 1434-3
M-Bus quiescent current	L < 1.5 mA (MARK current)
M-Bus current	H=L (quiescent current) + 13 mA typ. (SPACE current)
M-Bus drive	Texas Instruments TSS721
Protection resistance	2 x 215 Ω
Data transmission rate	300, 2400, 9600 baud with automatic speed detection
Addressing (each input)	1 primary and 1 secondary address
Data structure	Configuration type - changeable structure (Low Byte First, CI: 72h) Length- 53 Byte 1. data record – counter 2. data record – date and time 3. data record – last due date 4. data record – last due date counter 5. data record – next due date 6. data record – manufacturer data
Configuration	Identification number, medium, primary address, pulse constant, measuring unit, tariff mode, date and time of the next due date, it could be parameterized by SND_UD the next due date, it could be parameterized by SND_UD telegram
Environment	
Working temperature range	from -20 to 60 C°
Storage temperature range	from -20 to 70 C°
Humidity	up to 70% (without condensation)
Housing	
Material	Thermoplastic
Dimensions (w x h x l)	75x74x40 mm
Color	Light gray
Ingress protection	IP20 (IP68 option)
Counting	Bolts on the basis
Connection dimension	Sensor up to 1 mm² M-Bus up to 2,5 mm²