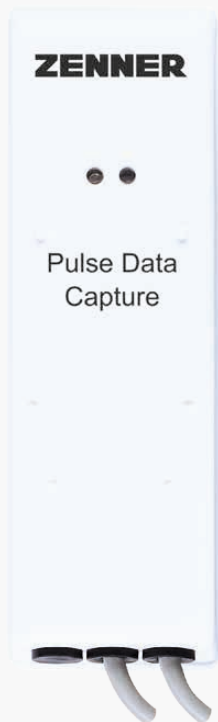


PDC

Communication module

*Retrofit module for the
integration of meters with
pulse output in radio systems*





PDC-Communication module

Gateway for the integration of meters with pulse outputs
in remote reading systems

The **PulseDataCapture** module is optimal for the integration of measuring instruments with pulse output in radio reading systems.

The consumption data of water-, energy heat-, gas-, oil- and other electricity meters with pulse output can be transferred by means of this gateway wireless to a wM-Bus receiver or in an LPWA-network.

The gateway is battery powered. The battery lifetime is depending on the version, the transmission interval and the ambient conditions and can reach 15 years.

Model variant:

Our PDC module is available as follows:

- wireless M-Bus radio module according to OMS standard (868 MHz), EN 13757-4
- LPWAN radio module (LoRaWAN, SIGFOX)

Smart Metering Functions:

- Self-monitoring
- Leakage detection
- Meter stop detection
- Meter oversized detection
- Meter undersized respectively pipe burst detection

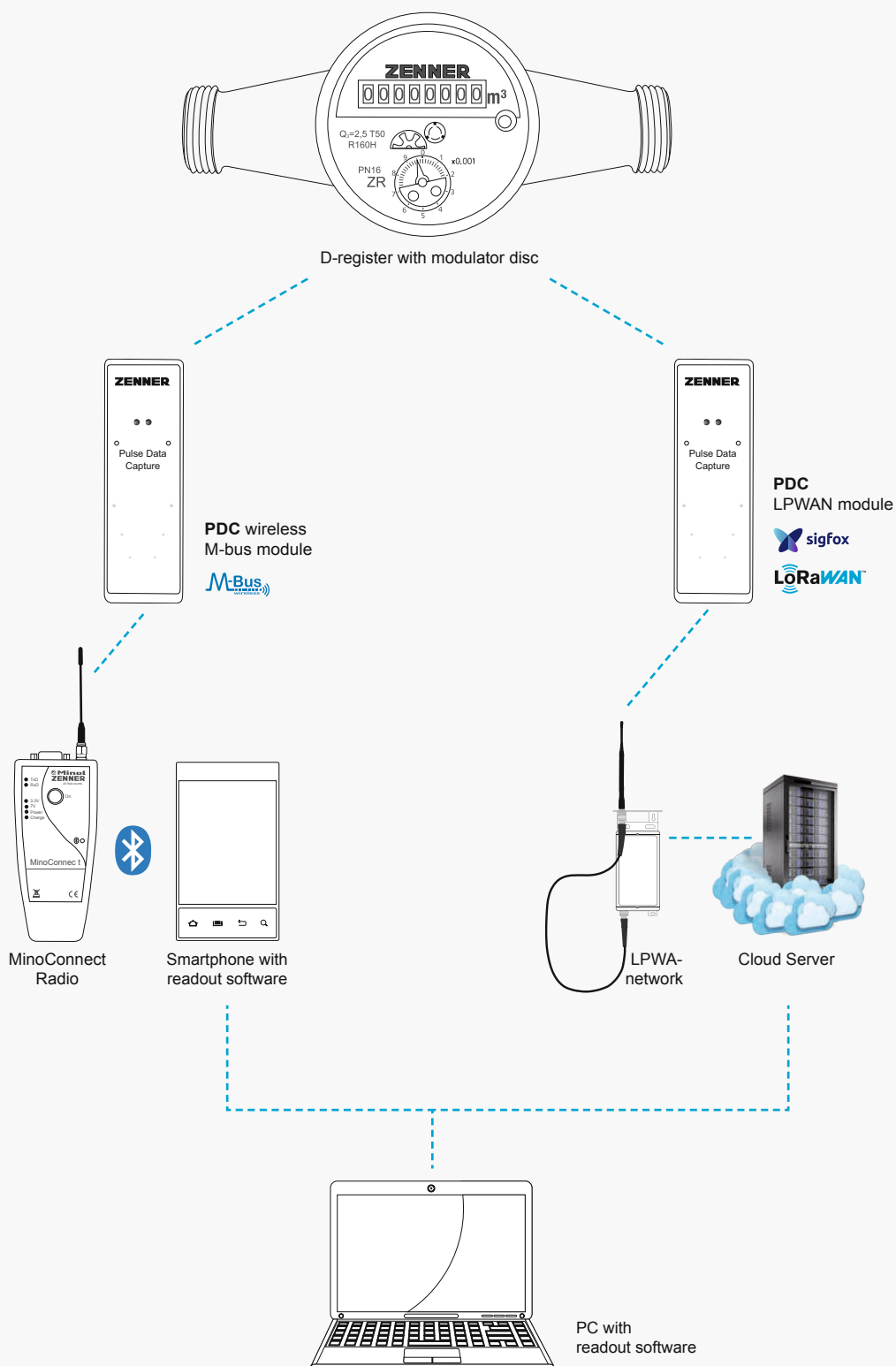
Typical applications:

- Remote meter reading via walk-by or drive-by system
- Remote meter reading via LPWA-networks (LoRaWAN, SIGFOX)
- Remote reading of meters with pulse output via the stationary readout system Z.RTU from ZENNER.

Main features

- Plastic housing incl. wall bracket
- Infrared interface
- Pulse and Open-Collector signals processible
- Battery powered
- Protection class IP54 or IP68 as an option
- Versions with connected ZENNER Reed pulser (cable length 1,5m) for the model ranges ETKD-N/ETWD-N, MNK-N, MTKD-N/MTWD-N, RTKD-N available
- Version with lose cable end to be connected to an external meter with pulse output available
- Optionally: to be connected with 2 meters with pulse output

Remote readout with the PDC modul



Technical data

General performance characteristics:

Power supply	Long life battery up to 15 years battery lifetime (depending on the version)
Battery status monitoring	yes
Operating temperature	10°C...40°C; -15°C...60°C (temporarily)

Data logger:

Annual due dates values:	max. 16
Monthly values max	max. 192, plus max. 192 semi-monthly values
Daily values	max. 96
Quarter hour values	max. 96

Technical data (wM-Bus):

Transmission mode	wireless M-Bus unidirectional, Standard: T1; optionally S1, C1
Encryption	AES 128 according to OMS (device-specific), with factory key or not encrypted as an alternative
Data contents	current value, current date, due date, monthly value, historical monthly values for telegram type A, status information
Transmission interval	20-40 sec., depending on telegram type and number of inputs
Transmission power	25 mW

Data contents (wM-Bus)

The PDC module can be delivered with various data telegrams.

Data protocols	Type A *	Type B *	Type C **
Current value	x	x	x
Current date	x	x	
Due date		x	x
Monthly value, previous month	x	x	x
Further 11 monthly values	x		
Status information 1	x	x	x
Status information 2	x	x	x

* Data telegram according OMS Spec., Transmission interval Type A: typical: 40 sec., Type B: typical 40 sec. ** wM-Bus, manufacturer specific data telegram, Transmission interval 20 sec

Set up:

The configuration of the PDC-module is made via the optical interface with using of the ZENNER MinoConnect with ZENNER Optohead IrCombiHead and the right ZENNER software.

Other alternative Android-software solutions from our partners can be used.

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