

# Dynamic-Hybrid

Register  
for cold water meters (up to 50 °C)



## Main characteristics

Waterproof (IP 68) using a glass/copper hermetically sealed housing

Proven mechanical register with 6-digit roller counter and three analogue decimal sweep hands

Optical sensor can be fitted to the register

The shaft-encoder ensures absolute correlation between the mechanical register and the remote reading

Built in electronics equipped with a serial interface

Battery life > 8 years

Remote reading using an M-Bus interface (other protocols available on request)

Readout data may be transferred via cable, GSM, inductive interrogator or radio

## Dial Face and Interfaces

Roller counter with three decimal sweep hands

Connection port for optical sensor (OD)

Serial interface with 5m connection cable

## Alternative Dynamic-Registers

Standard	(Please see leaflet Dynamic-Standard)
Encoder	(Please see leaflet Dynamic-Encoder)
Electronic	(Please see leaflet Dynamic-Electronic)

**This register is available for water meters:**

- **WP-Dynamic for cold water**
- **WS-Dynamic for cold water**
- **MeiTwin**
- **WPVD** (special bypass meter available)
- **RKD QN 2.5 ... 10**

## Description

The Hybrid register combines the well proven mechanical register for direct reading and an additional electronic module for remote readout.

The mechanical register and the electronic module are working absolutely independent of each other and give a high security and quality of readout data.

The mechanical register guarantees a readout even when the electronic module fails.

The extremely high integrity of the remote reading is guaranteed using an inductive shaft encoder.

A high resolution pulser (OD 01/03) may be connected to the register and ensures a connection to existing data transmission systems.

## Readout Values

Actual meter reading  
Momentary flow rate  
Maximum flow rate  
Minimum flow rate  
Volume in reverse flow  
Meter serial number  
Annual keydate value  
Statistical values (last 12 months)  
Stand number  
Pulse output (with OD)

## Technical Data

### Interface

MiniBus or M-Bus (IEC 870); automatically selectable

### Data protocol

Acc. to IEC 870; Baud rate 300 or 2400 Bd automatically selectable

**Array** 108

**Connection cable** Length 5m

### Minibus protocol

Inductive: with external data coupler MiniPad via MiniReader or via mobile data coupler MDK and Dokom Mobil

Serial readout: via telephone modem or RS 232 interface

### M-Bus protocol

Stationary installation with 2 wire cable (standard telephone cable acc. to EN 1434-3)

### Temperature range

Medium 0 ... 50 °C  
Ambient -20 ... 60 °C

### Protection class

IP 68 (submersion 1 m for min. 1 week)

## Pulse Values

Pulser	DN 40 ... 125	DN 150 ... 300
OD 01	1litre	10 litre
OD 07-L (for data logger)	1litre	10 litre

## Possible Application

Data source	Opto pulser OD 01 / 07-L	Frequency converter	Readout system Mini-BUS	Data logging system CDL
Mechanical register	X	X		X
Interface			X	

For technical data of the mentioned devices please see appropriate leaflets



Certified according to ISO 9001  
Quality Management System OQS Reg.no. 3496/0



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