



Opto OD Pulser

Woltman - cold and hot water meters

Application

- Conversion of pulse signal to an analog signal 4 - 20 mA (0 - 20 mA) for instantaneous flow rate (m^3/h) - FM-1D / K
- Flow direction identification (forward / reverse)
- Pulse transferral for forward and reverse totalisation
- Control-, regulate and dosing function

Cold Water Variants

OD 01 and OD 03



Hot Water Variants

OD 02 and OD 04



Features

- Simple installation
- Opto OD with forward / reverse identification
- Pulses can be fitted without breaking the meter seal
- Flood proof (IP68)

Variants

OD 01 and OD 03	for cold water meters up to 50 °C
OD 02 and OD 04	for hot water meters up to 130 °C
OD 01 and OD 02	for flow indication and flow control
OD 03 and OD 04	for remote counters and batching systems

Opto OD pulser
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Technical Data

Sensor principle	IR-reflex light barrier acc.to EN50227, plug type
Specification	Supply voltage 8.2 V DC Current with reflection < 1.2 mA Current without reflection > 2.1 mA Forward/reverse identification integrated by an additional current barrier at 1,5 mA
Pulse duration	Depending on flow in the meter At meter stop continuous pulse possible
Protection	IP68 (DIN 40050)
Temperature range	OD 01/03: ambient temperature $t_{amb} \leq 70^\circ\text{C}$ OD 01/03: medium temperature $t_m \leq 50^\circ\text{C}$ OD 02/04: ambient temperature $t_{amb} \leq 70^\circ\text{C}$ OD 02/04: medium temperature $t_m \leq 150^\circ\text{C}$
Connection cable	$\varnothing 4.1 \text{ mm}, 2 \times 0.14 \text{ mm}^2$, end splice, length 3 m

Pulse Values

Nominal Diameter	DN	50 ... 125 1 pulse Δ ...	150 ... 300 1 pulse Δ ...
Cold water meter	Opto OD 01	0,001 m ³	0,010 m ³
	Opto OD 03	0,010 m ³	0,100 m ³
Hot water meter	Opto OD 02	0,001 m ³	0,010 m ³
	Opto OD 04	0,010 m ³	0,100 m ³

Application example with Opto OD Pulser

- Pulse signals for processing in the management systems or other control and regulation functions.

