

OD

Pulser for cold and hot water meters Dynamic



Special Features

Simple installation

Pulsers can be fitted without breaking the meter seal

OD with forward/reverse identification

Two different pulse values



OD

Application

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:

OD 02/EX

for explosion hazardous areas

OD 07-L

for data logging

OD 07-24V/S

for direct connection to SPC or remote control systems

OD AM

for connection of heat meters

Performance Data OD 01 ... 04, OD AM

Sensor principle	IR-reflex light barrier acc. to DIN 19234, 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	OD 01 ... 04: depending on flow in the meter at meter stop continuous pulse possible	OD AM: Closing time 7 ms
Protection	IP 68 (DIN 40050)	
Temperature range	OD 01/03 :	ambient temperature $t_{amb} \leq 70\text{ °C}$ medium temperature $t_m \leq 50\text{ °C}$
	OD 02/04/AM :	ambient temperature $t_{amb} \leq 70\text{ °C}$ medium temperature $t_m \leq 150\text{ °C}$
Connection cable	Ø 4.1 mm, 2 x 0.14 mm ² , end splice, length 3 m	

Performance Data OD 07 24 V/S

OD 07-24 V with 1 pulse output forward and 1 pulse output reverse

OD 07-24 S with 1 pulse output and flow direction signal

Sensor principle	IR reflection light barrier, bi-directional	
Specification	all voltages are relative to GND (-) Supply voltage (+): +5 V ... +30 V DC Supply current: typ. 230 µA, max. 250 µA Output signal: open collector (nnp) Darlington, with 150 Ohm series resistance and polarity protection Output voltage: SIG relative to ground (-): 0 V ... supply voltage Output current: 0 ... +40 mA	
Pulse duration	depending on flow in the meter, at meter stop continuous pulse possible	
Protection	IP 68 (DIN 40050)	
Temperature range	Operation temperature: medium: 0 ... 50 °C, cable housing: 0 ... 70 °C Storage temperature: -25 °C ... +75 °C	
Changed polarity, Short circuit	once max. 1 s at 0 ... 25 °C without damage	
Connection cable	Ø 4.1 mm, 4 x 0.14 mm ² , end splice, length 3 m	

Pulse Values

Nominal Diameter	DN	40 ... 125 1 pulse $\hat{=}$...	150 .. 300 1 pulse $\hat{=}$...
Cold water meter	OD 01, 07-L, 07-24 V/S	0.001 m ³	0.010 m ³
	OD 03	0.010 m ³	0.100 m ³
Hot water meter	OD 02, 02 Ex, AM	0.001 m ³	0.010 m ³
	OD 04	0.010 m ³	0.100 m ³