

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

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



OD

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	$t_{amb} \leq 70 \text{ }^{\circ}\text{C}$
		medium temperature	$t_m \leq 50 \text{ }^{\circ}\text{C}$
	OD 02/04/AM :	ambient temperature	$t_{amb} \leq 70 \text{ }^{\circ}\text{C}$
		medium temperature	$t_m \leq 150 \text{ }^{\circ}\text{C}$
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 (npn) 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