

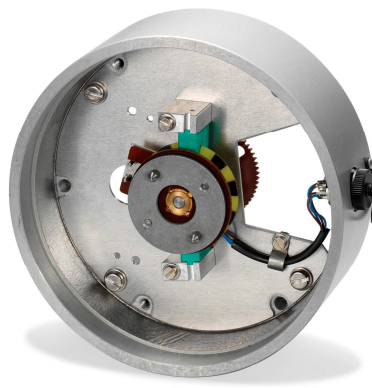
Liquid Measurement with Oval Gear Meter

Pulse generators modular system

Pulse generators generate the electrical pulses proportional to the volume, which is measured by the oval gear meter. Pulse generators of vemm tec oval gear meter (modular system) can generate NAMUR signals as well as PNP right rectangular pulses. The impulse output can be provided as one or two channel. At the two channel impulse output the channels are shifted by 90° and together with our oval gear meter approved for custody transfer application.



Pic 1) One-channel sensors NAMUR type 1IN100H-S



Pic 2) Two-channel sensors PNP type 2PNP10H-S

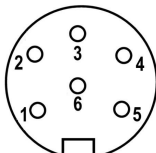
Pulsvolume and -frequency

Installation position		Without or in front of G10 (reduction gear)			behind G10
		Puls volume in Litre / pulse / Pulse frequency at Qmax in Hz			
		Type of pulse generator			
Oval Gear Meter	max. Flow rate lpm	1IN1H-S 2IN1H-S 1PNP1H-S 2PNP1H-S	1IN10H-S 2IN10H-S 1PNP10H-S 2PNP10H-S	1IN100H-S 2IN100H-S 1PNP100H-S 2PNP100H-S	1IN1H-S 2IN1H-S 1PNP1H-S 2PNP1H-S
WG15 WG20 WG25.1	50	1 / 0,83	0,1 / 8,3	nur bis max. 32,5 l/min einsetzbar	10 / 0,083
WG25.2 WG32	120	1 / 2,0	0,1 / 20	nur bis max. 75 l/min einsetzbar	10 / 0,2
WG40	250	10 / 0,416	1 / 4,16	0,1 / 41,6	100 / 0,0416
WG50	400	10 / 0,66	1 / 6,66	0,1 / 66,6	100 / 0,066
WG65	700	10 / 1,17	1 / 11,7	0,1 / 117	100 / 0,117
WG80	900	100 / 0,15	10 / 1,5	1 / 15	1000 / 0,015
WG80	1200	100 / 0,2	10 / 2,0	1 / 20	1000 / 0,02
WG100	2000	100 / 0,33	10 / 3,3	1 / 33	1000 / 0,033

Technical data

	NAMUR	PNP
Sensor	Slot initiator according to EN 50227	Slot initiator three wire
Switching voltage	5 bis 15 VDC	10 bis 30 VDC
Residual ripple	max. 5%	+/- 10%, 30V
Switching current	> 2,1 mA bei 8 VDC, 1 kΩ	100 mA
Static current	< 1,2 mA bei 8 VDC, 1kΩ	<15 mA
Class hazardous area	EEx ia IIC T6	Not possible

Pin hookup:



	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6
NAMUR	Channel 1+	Channel 1-		Channel 2+	Channel 2 -	
PNP	Channel 1+	Signal 1	Channel 1 -	Channel 2+	Signal 2	Channel 2 -