

enelean

We Measure

STAINLESS STEEL TURBINE TRANSMITTERS



Flow



Pressure



Level



Temperature



Datalogger



Control and
Automation

en.ensan.com



TURBINE FLOWMETERS

Turbine flowmeters work by using the energy of the fluid passing through it to move a rotor within the fluid passing through. There are blades on this rotor that they use the fluid to create a rotation and move the rotor around in. The rotor blades are attached to a rod, which is able to spin through the use of bearings. The speed of blades can be monitored by attaching a magnet onto. Using the magnetic method, the magnets are attached onto the blades and as they spin, they pass a small piece of metal embedded at a certain point within the flowmeter itself. This way, using the time it takes between each time the magnet connects with the piece of metal, the speed of the fluid can be judged accurately. The brilliance of this system is that these sensors can work whichever way the fluid flows through the turbine flowmeter. Due to its compact electronics and complete stainless steel mechanical design it is suitable to use in harsh conditions with multiple output versions.

Flanged Type Stainless Steel Turbine Flowmeter



ETRANS-TD-F

Thread Type Stainless Steel Turbine Flowmeter



ETRANS-TD-D

Stainless Steel Turbine Flowmeter with Indicator



ETRANS-TD-GF

STAINLESS STEEL TURBINE FLOWMETERS (LIQUID)

Technical Specifications

Measuring Areas	Liquids under 20 cSt viscosity
Pipe Sizes	DN02...DN50 (Male thread) DN15...DN300 (Flange)
Measuring Range	0,036...1.400 m³/h
Accuracy	±0,5% (Standard), ±0,2% (Optional) of M.V.
Process Temperature	-20°C ... 120°C
Process Pressure	Up to 63 Bar
Power Supply	5...24 VDC, 3.6 V Lithium Battery
Protection Class	IP65, IP67 (Depend on electronics)
ATEX Class	Ex d IIC T6 Gb
Output	Pulse, 4...20 mA, 0...10 V, RS485 (selectable)
Special Option	Local Display OLED



TURKAK Accredited Calibration Opportunity

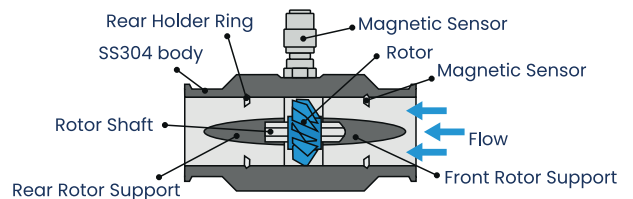


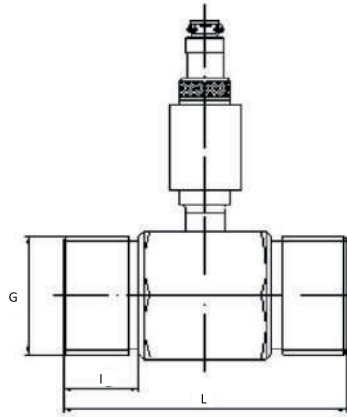
Made In Türkiye

STAINLESS STEEL TURBINE FLOWMETERS (GAS)

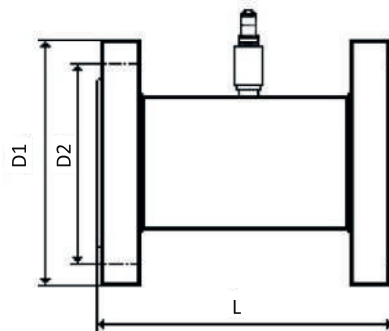
Technical Specifications

Measuring Areas	All homogenous gases
Pipe Sizes	DN15...DN300 (Flange)
Measuring Range	1,5...4.000 nm³/h (0,1...25 m/s)
Accuracy	±1% F.S.
Process Temperature	-20°C ... 120°C
Process Pressure	Up to 63 Bar
Power Supply	5...24 VDC, 3.6 V Lithium Battery
Protection Class	IP65, IP67 (Depend on electronics)
ATEX Class	Ex d IIC T6 Gb
Output	Pulse, 4...20 mA, 0...10 V, RS485 (selectable)
Special Option	Local Display OLED




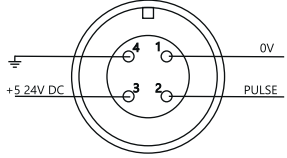





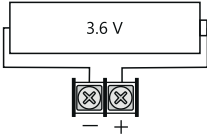

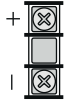

INFORMATION OF THREADED-TYPE CONNECTION


Connection Size	Measuring Range m ³ /h	Average Pulse/Litre	G (mm)	I (mm)	L (mm)	Weight (kg)
DN4	0.04-0.2	9900	3/8"	7	40	0.4
DN6	0.1-0.6	10000	3/8"	11	50	0.4
DN10	0.2-1.2	3600	1/2"	16	60	0.5
DN15	0.6-6	900	1"	18	75	0.8
DN20	0.8-8	600	1"	23	100	0.9
DN25	1.0-10	336	1 1/4"	23	100	0.9
DN32	1.6-16	135	1 1/2"	25	120	1.00
DN40	2-20	89	2"	32	120	1.1

INFORMATION OF FLANGED-TYPE CONNECTION


Connection Size	Measuring Range m ³ /h	Average Pulse/Litre	D1 (mm)	D2 (mm)	L (mm)	Weight (kg)
DN40	2.5-25.0	89	150	110	140	6
DN50	4.0-40	41	160	125	150	6,5
DN65	6.0-60	17	182	145	180	7,5
DN80	10-100	11	200	160	200	8,5
DN100	16-160	7,5	235	180	220	11
DN150	40-400	2.1	275	240	300	14
DN200	80-800	1.8	340	295	360	19

OPTIONS

	<p>Pulse output 8 - 32 VDC Supply -40°C/120°C Temp. %0,5 Accuracy</p>	
	<p>Exproof Pulse Output 8 - 32 VDC Supply -40°C +120°C Temp. %0,5 Accuracy</p>	
	<p>Exproof 4-20 mA output 10 - 30 VDC Supply -30°C +120°C Temp. %0,5 Accuracy</p>	
	<p>LCD Indicator with battery 3.6V Lithium -20°C +100°C Temp.</p>	
	<p>Exproof LCD Indicator 4-20 mA Output 9 - 27 VDC Supply -40°C +120°C Temp. %0,5 Accuracy</p>	
	<p>Panel-type Indicator Rs485/Relay output Opt.: 4-20mA 220VAC / 24VDC supply</p>	