

enelsan

We Measure

INSERTION TYPE ELECTROMAGNETIC FLOWMETERS



Flow



Pressure



Level



Temperature



Datalogger



Control and
Automation

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INSERTION TYPE ELECTROMAGNETIC FLOWMETERS

Insertion type electromagnetic flowmeters are an economic alternative to inline flowmeters. They comprise an electromagnetic sensing head mounted on the end of a support rod. Insertion type electromagnetic flowmeter finds application in existing water distribution systems where provision for flow metering was not originally made and where a full bore flow meter would be uneconomic. The assembly can be installed in existing pipelines without the need for major excavations or alterations to pipe work normally associated with the installation of full bore meters.

Square Designed Remote Type
Insertion Electromagnetic Flowmeter



ETTRANS-INS-R

Square Designed Compact Type
Insertion Electromagnetic Flowmeter



ETTRANS-INS-C

Circle Designed Compact Type
Insertion Electromagnetic Flowmeter



ETTRANS-INS-K



TURKAK Accredited
Calibration Opportunity



Technical Specifications

Pipe Sizes	DN200...DN1000 (Standard Probe) DN1000...DN2000 (Extended Probe)
Measuring Range	0,3 ... 10 m/s
Accuracy	< 1m/s $\pm 1,5\%$, >1m/s , <10m/s $\pm 0,5\%$ (of full scale)
Process Temperature	Teflon(PTFE) -20°C ... +150°C
Process Conductivity	>50 $\mu\text{S}/\text{cm}$
Process Pressure	PN16
Power Supply	85-265 VAC 50-60 Hz, 24 VDC, Battery Operated
Output	Pulse, Frequency, RS485 MODBUS, 4-20mA, (Opt. HART)
Alarms	1x passive pulse (12-36VDC, 100 mA, 1.5 k Ω) (selectable one of Empty Pipe, Sensor Error, Over Limit)
Straight Pipe Distance	5x DN front 3x DN behind of the flowmeter
Indicator	3 Line 30 digit with 4 push buttons LCD
Special Options	Hastelloy, Tantal, Titanium electrode options