



FLOMAT ELECTROMAGNETIC INSERTION FLOWMETER

EL-5000 INTRODUCTION

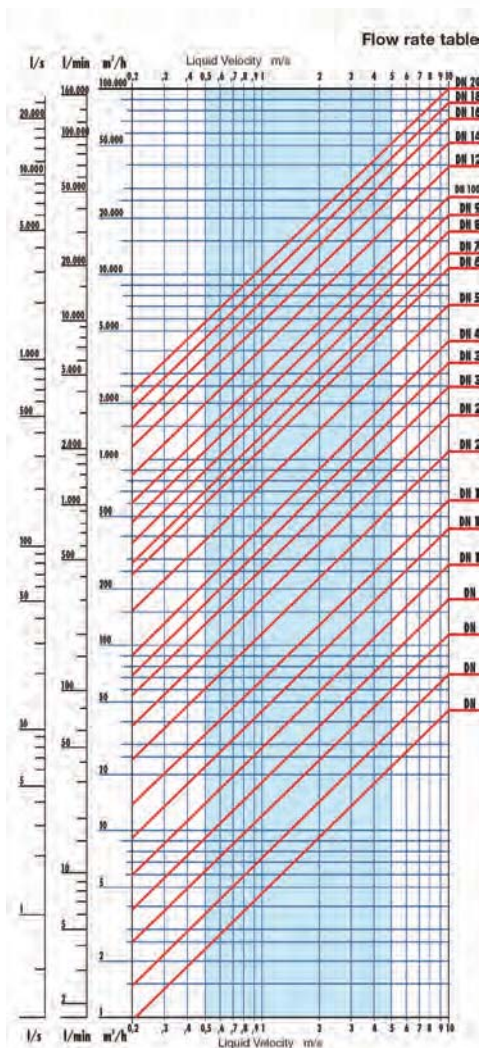


For use in large diameter pipes or open channels as an economical solution for liquid metering.

Flow rate for liquids with electrical conductivity better than 5 $\mu\text{S}/\text{cm}$, for example.

- Water treatment
- Sewage treatment
- Acid, neutral or alkaline solutions
- Chemical and pharmaceutical products

Suitable for use at low and medium temperatures.



- **Accuracy: 1.5%**
- **Readings are independent of density, temperature, viscosity and pressure**
- **Alternating magnetic field for metering avoids electrolysis**
- **Absence of obstructing elements gives low pressure loss and will allow the pass of solids**
- **Can be mounted in any position, provided that the pipe is always full**
- **Low power consumption**
- **Good stability with temperature and age**
- **No moving parts provides zero maintenance**
- **Can be installed with short straight pipe sections (10DN / 5DN)**
- **Good chemical resistance of construction materials**

Body material: Stainless steel AISI 304, Stainless steel AISI 316 (opzionale)

**Size for pipe line $\varnothing$: Size 1 $\varnothing$ 25-500mm- Size 2 $\varnothing$ 25-1000mm
Size 3 $\varnothing$ 25-2000mm / Other on request**

Nominal pressure: PN 16 / Other on request

Process connection: Filettato $\varnothing$ 28 mm- Other on request

Connection material: Stainless steel AISI 304

Liquid temperature: $-20^{\circ}\text{C} \div 100^{\circ}\text{C}$ / - $-20^{\circ}\text{C} \div 150^{\circ}\text{C}$ separato

Lining material: PTFE

Electrode material: Stainless Steel 316L, Hastelloy B, Hastelloy C, Titanium, Tantalum, Platinum

Process Connection: 1"NPT, Flange Other on request





WL-300 SERIES

FLOW TUBES IN BOTH COMPACT OR SEPARATE VERSIONS

Three line LCD display for Flow rate/Totalizer
Accuracy of +/-0.2%(Option), +/-0.5% of reading
Bi-directional flow measurement, current and pulse output
4-20mA auxiliary Input include 4 digit display
MODBUS/HART communication



Keyboard : 4 keys from internal for programming and display control.
: 4 keys from remote control for programming and display control.

Low Flow Cutoff : 0 to 9.9 %

Damping : 0 to 99 Second

Density Setting : 0.1 to 9.99 g/cm²

Self Diagnosis : The following error message is indicated when applicable

- Coil fail
- Power fail
- Output overranged
- Internal error
- Overflow
- Empty pipe

Cable Entry : 4-M18 X 1.5, 1/2 NPT

Protection Class : IP 67

Ambient Temperature : -25 to +65 C

Material : Aluminum Alloy

Power Supply : 90-260 VAC, 45/63 Hz, 8-36VDC,

Power Consumption : < 10VA

Accuracy : + /-0.5% (option + /-0.2%)

Temperature : -20°C.....+130°C

Flow-speed range : 0.1-12m/s

Display : clear backlighted LCD display, instant , accumulation

Line 1 : 11 digit totalizer for forward flow
11 digit totalizer for reverse flow
11 digit totalizer for difference

Line 2 : 5 digit flowrate / Velocity / % / mA / HZ

Line 3 : Parameter / Query / Clr tot / Query LOG
Alarm, Guidance

Unit : M3/H , L/H , Kg/H , T/H , L/min
M3/min , GPH , GPM

Accuracy : +/-0.5% of reading (Velocity >= 0.5 m/s)
: +/-0.002 m/s (Velocity < 0.5 m/s), (or +/-0.2% of reading)

Repeatability : +/-0.1% of reading

Current Output : 4-20 mA (Isolated)

Load : Max. 800 Ω

Pulse output : Open collector

Rating : 3 to 30 VDC, 20 mA Max.

Pulse Rate : 1) Scale pulse, (Pulse/M3, Pulse/L, Other)
: 2) Frequency, 0-5000 Hz

Pulse output : transistor collector open output with photoelectric isolation; pulse equivalent: 0.0001-10m3/cp

Alarms : High/Low with open collector output

Rating : 3 to 30 VDC, 20 mA Max.

Communication : RS 485(MODBUS Protocol): HART signal

Data Storage : Operation parameters and totalization figures are stored by EEPROM for more than 15 years

MODEL SELECTION GUIDE

WL300 Series				
Example: WL300-AC-1-1-R				
WL300	XX-	XX-	XX	Description
Power supply	AC-			90-260 Vac, 50/60 Hz
	DC-			24Vdc, +/-10%
Mounting		1-		Compact with Sensor
		2-		Separate, wall mounting
		3-		Separate, 2" mounting bracket
Communication			R	RS 485(MODBUS Protocol)
			H	HART signal

