



**KROHNE**

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## ► ECOMAG

### Magnetic Flowmeter Primary Head For Chemicals and Process Liquids

- Easy, quick and low cost of installation
- Rugged and proven design
- Absolutely maintenance free
- PTFE liner



## ECOMAG Electromagnetic flowmeters

- Reliable expert for all industrial applications and measurement for process liquids.
- Wafer design.
- Easy and quick installation.
- PTFE LINER

### ECOMAG

Flowmeters to measure the volumetric flow rate of electrically conductive liquids. Smooth inner tube, no pressure loss.

#### Fields of application

- Suitable for all industrial chemicals
- Process liquids
- Effluent treatment plants

ECOMAG electromagnetic primary heads are compatible with the below signal converters.

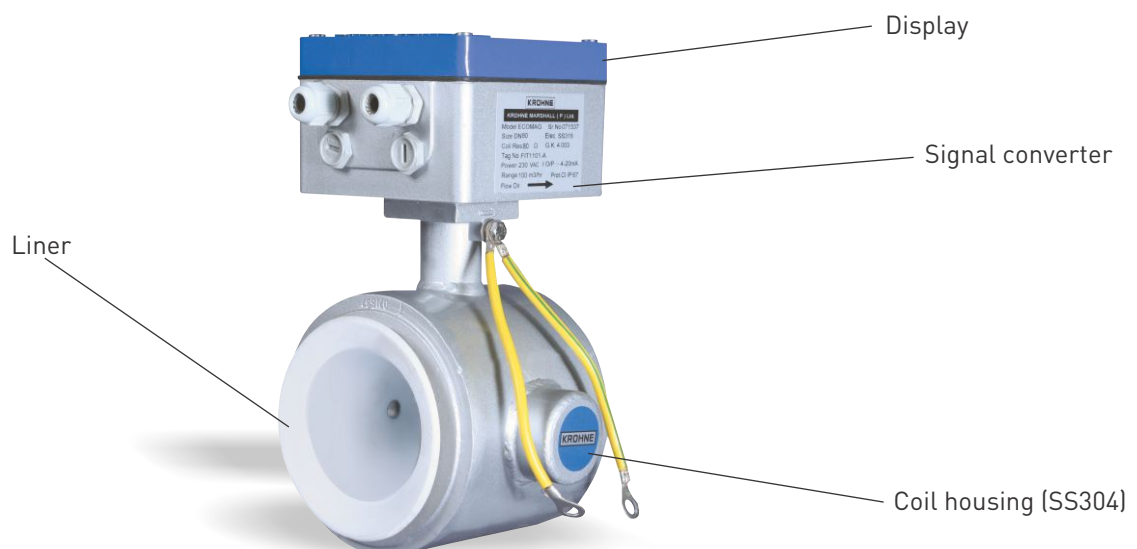
IFC 011 - Measurement accuracy  $\pm 0.5\%$  of measure value.

Versions - Compact with integral signal converter (Model: IFC 011K)

Separate with field mounted signal converter (Model: IFC 011F)

Signal converters with higher accuracy available on request.

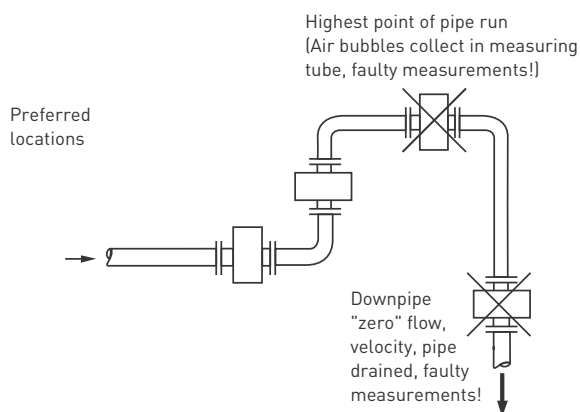
Complete technical details of the signal converters are available in relevant data sheets.



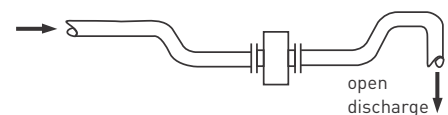
## ECOMAG Technical Data

Meter Sizes	DN 25 to DN 150 and 1" to 6"	
Mounting flanges	Wafer, Suitable to install between ANSI/150/300 DIN	
Electrical conductivity	≥20 µS/cm for water, ≥-5 µS/cm for process fluids	
Product temperature	60°C to + 180°C	
Insulation class of field coils	H, temperature of fluid 180°C (For temperature above 80°C separated electronics recommended)	
Electrode design	Flat elliptical, surface-polished electrodes	
Grounding rings	Available optionally	
Protection Class	IP 67	
Materials	Measuring tube	SS 304
	Liner	PTFE
Electrodes	Standard	Hastelloy C4
	Optional	SS316, Titanium, Tantalum, Platinum, Nickel
Housing	SS 304	
Terminal Box	Die cast aluminium	
Cable entry	½" NPT (F) Brass Nickel plated	
Grounding rings	Standard	SS 316, SS 304
	Specials	HC4, Tantalum, Titanium, Nickel

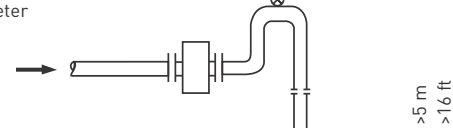
## Suggestions for installation



Open feed or discharge  
Install in low section of pipe



Downpipe over m 16 ft length  
Install air valve in downstream of flowmeter



Long pipeline  
Always install shut-off valves downstream of flowmeter



Never install flowmeter on pump suction side



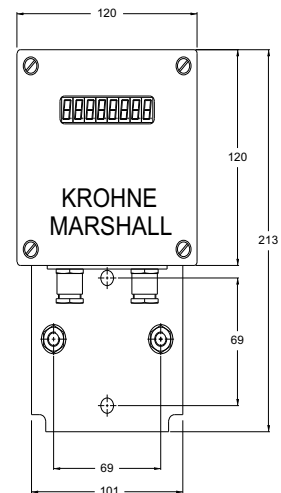
**Dimensional and weights**

Please Note:

The total dimensions for the height is obtained from the dimension B (see table) plus the height of the terminal box or the signal converter, see drawings.

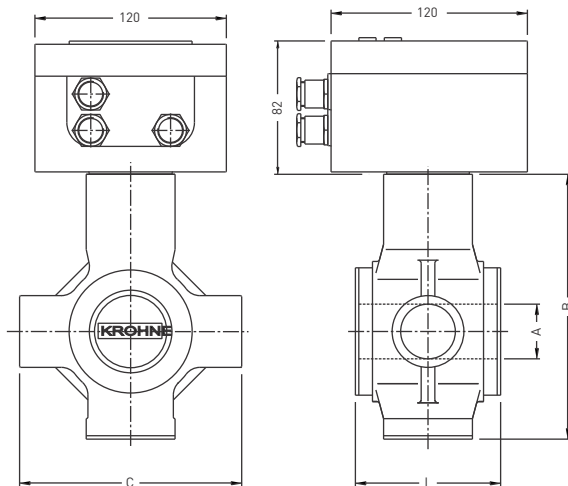
The total weight is made up of the weight of the signal converter plus the weight of the terminal box or signal converter, see drawings.

**Signal Converter IFC 011F**

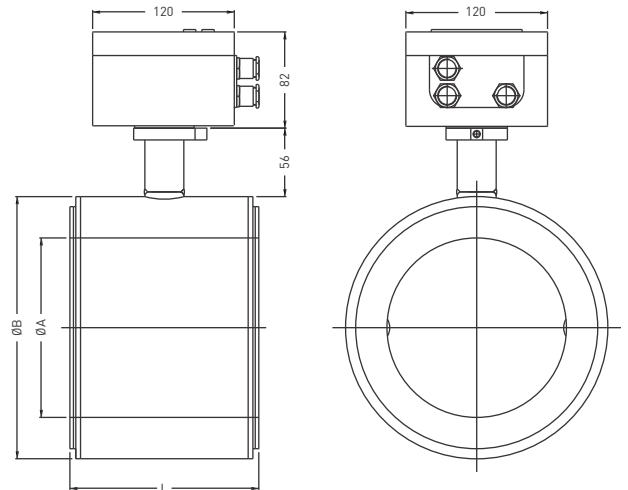


Weight - 1.5 kg

**Flowmeter size : 1" - 1 1/2" / 25NB - 40NB**



**Flowmeter size : 2" - 6" / 50NB - 150NB**



**Dimensions**

Nominal size (ANSI)	L (mm)	A (mm)	B (mm)	Weight (Approx.)	
				Kg	LBS
1"/25NB	75	19	150	3.2	7.05
1 1/2"/40NB	85	35.3	165	4	8.81
2"/50NB	100	48	106.2	3.5	7.72
3"/80NB	120	77	137.8	4.5	9.2
4"/100NB	150	98	176	7.2	15.87
6"/150NB	160	150	222	12	26.45

Use 1 1/2" and 2" flanges to install flowmeters sizes 1" and 1 1/2" respectively.

Note: These flowmeters are not designed for custody transfer or weights and measures applications.

Specifications subject to changes without prior notice

Doc#CIG/0912/301/V1.R0