



Basic

**KROHNE**

▶ *achieve more*

## ▶ IFC 100

### Signal Converter for Electromagnetic flowmeters

- Simple and easy to install and start up
- Excellent price / performance ratio
- Large Graphical LCD display
- Displays in Engineering units and Bar Graph
- Accuracy of  $\pm 0.5\%$  of Measured Flow



## Product Features

The IFC 100 signal converter is designed to measure the flow velocity, conductivity, volume and mass flow of electrically conductive liquid media.

IFC 100 signal converter can be combined with any KROHNE flow sensor, making it very widely used. Available in compact version, in which the signal converter is connected to the flow sensor, at 0° and 45° version. If the measuring point is difficult to access or the ambient conditions prevent the use of the compact version, the signal converter is available in a remote wall-mounted housing.



(Signal converter in wall-mounted housing)



(Compact designs with 45° and 0° versions)

1. Large back lit graphic display with 4 push buttons to operate the signal converter
2. Supply voltage: 85...250 VAC.

## Highlights

- Simple installation and start-up
- Available inputs and outputs: Current output (incl. HART®) and status output
- Large backlit graphic display with intuitive operation
- Maintenance free
- Excellent price to performance ratio
- Extremely quick signal conversion

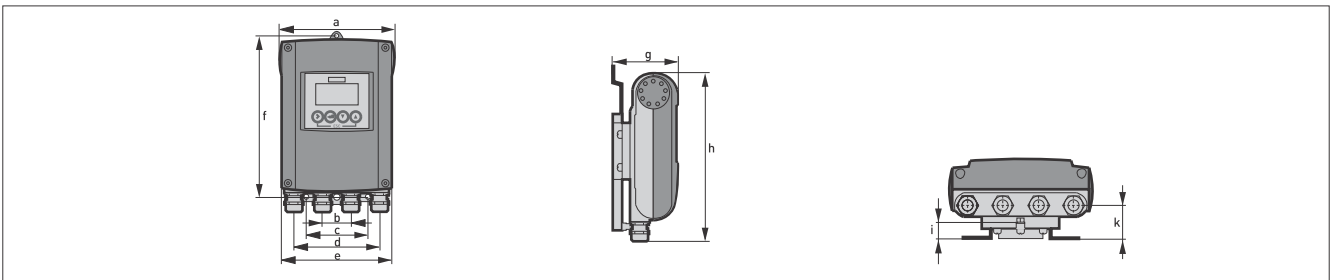
## Applications and Industries

- Suitable for diverse flow measuring applications
- Water & Wastewater
- Water treatment and distribution network
- Agriculture
- Heating, Ventilation & Air Conditioning (HVAC)
- Machinery
- Power plants

## Technical Data

<b>Measuring sensor</b>	
Optiflux 2000	DN 25 ... DN 1200 / 1" ... 48"
Optiflux 4000	DN 10 ... DN 1200 / 3/8" ... 48"
Ecomag	DN 25 ... DN 150 / 1" ... 6"
Aquamag	DN 50 ... DN 150 / 2" ... 6"
<b>Signal converter</b>	
Version	Compact (0° and 45° version ) Wall mounted
Version	Standard: Non-Ex
<b>Outputs</b>	
Current	0 / 4 ... 20mA, HART (active / passive)
Pulse/Frequency	Selectable
Status output (Passive)	Adjustable for switching point or empty pipe detection
Diagnostics functions	Empty pipe detection
<b>Display and User interface</b>	
Graphic display	LC Display, backlit white, Size: 128 x 64 pixel
Units	User selectable as required from lists for volume flow
Programming	4 push buttons for operator control of the signal converter
Remote programming	HART® through Hand Held Communicator
<b>Measuring Accuracy</b>	
Measuring error	±0.5% of the measured value
Repeatability	±0.1%
Calibration media	Water
<b>Operating conditions</b>	
<b>Temperature</b>	
Process temperature	Refer to technical data for the measuring sensor.
Ambient temperature	-40...+65°C / -40...+149°F
Storage temperature	-40...+70°C / -40...+158°F
Chemical properties	
Electrical conductivity	≥ 20 µS/cm
Gas content (volume)	≤ 3% by volume
<b>Materials</b>	
Signal converter housing	Die-cast Aluminum - Polyurethane coated
Electrical connection	
Power supply	Universal: 100...230 VAC (-15% / +10%), 50/60 Hz
Power consumption	8 VA
Cable length	Maximum 100 m / 325 ft
Cable entry	M20 x 1.5
Error Identification	Without HART®: 0 ... 22mA With HART®: 3.5 ... 22mA
<b>Low flow cut-off</b>	
Function	Switching point and hysteresis separately adjustable for each output, counter and the display, settable in increments of 0.1
Time Constant	0 ... 100s, settable in increments of 0.1
<b>Approvals and Certifications</b>	
Protection category to IEC 529 / EN 60529	IP 66 / 67 (eq. to NEMA 4X/6)
CE	The device fulfils the statutory requirements of the EC directives.

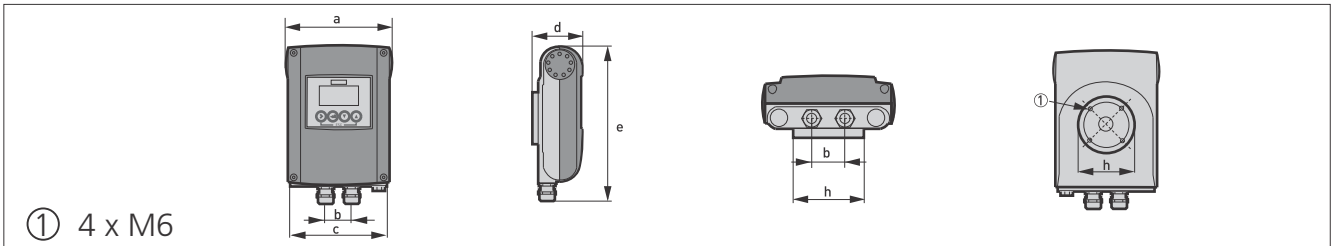
**Dimensions and weights**  
**Wall-mounted version**



**Dimensions and weights in mm and kg**

	Dimensions (mm)										Weight (kg)
	a	b	c	d	e	f	g	h	i	k	
Wall-mounted version	161	40	87.2	120	155	241	95.2	257	19.3	39.7	Std: 1.9 Ex: 2.4

**Compact 0° version**

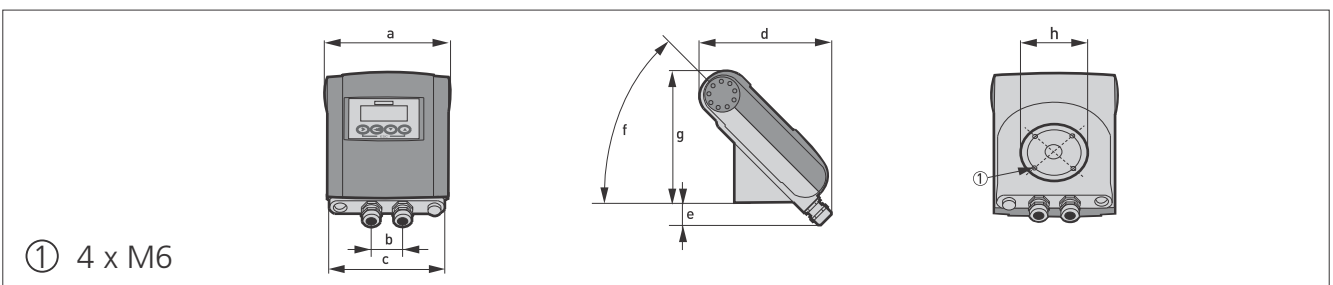


① 4 x M6

**Dimensions and weights in mm and kg**

	Dimensions (mm)								Weight (kg)
	a	b	c	d	e	f	g	h	
0° version	161	40	155	81.5	257	-	-	Ø72	Std: 1.9 Ex: 2.4

**Compact 45° version**



① 4 x M6

**Dimensions and weights in mm and kg**

	Dimensions (mm)								Weight (kg)
	a	b	c	d	e	f	g	h	
45° version	161	40	155	184	27.4	45°	186	Ø72	Std: 2.1 Ex: 2.6

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

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