INTERIN

# Position-Independent Flow Monitor Model FC



- Range: approx. 1-100 L/min Water
- Switch Point: at approx. 1 L/min with Water falling flow rate
- Pressure: max. 350 bar
- Temperature: max. 100 °C
- Material: Brass or Stainless steel
- Connection: G 1 (female)

## Cost Effective Measurement Technology

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### **Position-Independent** Flow Monitor Model FC

#### Description

Dimensions

The INTERIN flow monitor of model FC is used when extremely low flow switch points are required together with minimum pressure loss at high flow rates.

The flow monitor FC operates on the well-known float principle. An orifice float with its integral circular magnet moves within a cylindrical flow tube in the direction of flow and against the magnetic field of an opposing magnet mounted in the top of the instrument.

The magnetic field of the float activates a reed contact which is mounted on the outside of the instrument in a sliding protective casing. The special construction of the float and flow tube means that only a low flow is required to raise the float and hence activate the reed contact. If the flow rate increases further and the float reaches the top of its travel an additional flow path opens allowing high flow rates without a significant increase in the pressure loss. When the flow is maintained the float is forced back down the tube by the opposing magnetic field and the contact opens.

#### **Technical Details**

FC-11: Brass, Ms 58	
FC-12: Stainless steel, 1.4301	
FC-11: Brass, Ms 58	
FC-12: Stainless steel, 1.4301	
FC-11: Brass, Ms 58	
FC-12: Stainless steel, 1.4301	
Stainless steel	
FC-11: NBR	
FC-12: FPM	
100°C	
FC-11: 250 bar	
FC-12: 350 bar	
any,	
flow in direction of the arrow	
1 N/O contact	
Plug connector DIN 43 650	
N/O contact: 2-pole	
max. 240 V <sub>AC</sub> / max. 100 VA /	
max. 1.5 A	
±5% f. s.	

### Pressure Loss



Pressure loss

- Water cycles
- High pressure purifiers
- Sanitary technology Heating installations
- Blocking-media supervision

Water-deficiency protection

Cooling circuits

Pumps

#### Order Details (Example: FC-111H)

40

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88.5

120

Range	Connection	Brass Version	Stainless Steel Version
L/min H <sub>2</sub> O*	female	Order No.	Order No.
approx. 1 - 100	G 1	FC-111H	FC-121H

\*Switch point at approx. 1 L/min with falling flow rate