

Description

These Flow Monitors operate on the calorimetric principle and are suitable for small pipe sizes with flow rates as low as 0.1 ... 10 I/min for liquids and 2.5 \dots 250 l/min for gases. Self-contained sensor head with integral electronic circuitry in Ermeto housing sealed to IP65.

Features

- · Adjustable to a wide range of flow rates
- No moving parts in the flow
- · LED status indication
- · Relay output for flow rate
- · Suitable for very small pipe diameters
- Fast response time
- Suitable for liquids (SFW120-E) and gases (SLW120-E)
- MIN or MAX switch point



TECHNICAL DATA					
General Data		SFW120-E	SLW120-E		
Suitable for		water and liquids with similar viscosities	air and non-aggressive gases		
Monitoring function	flow rate	1 switch point (MIN oder MAX)	1 switch point (MIN oder MAX)		
Display	flow rate	1 LED (green)	1 LED (green)		
Temperature range	gas/liquid + monitoring head	-10 +60 °C/+14 +140 °F	-10 +60 °C/+14 +140 °F		
	electronic control unit	-10 +60 °C/+14 +140 °F	-10 +60 °C/+14 +140 °F		
Electrical Data					
		DC 24 V (18 32 V)	DC 24 V (18 32 V)		
Input voltage		AC 24 V (+10 %/-15 %)	AC 24 V (+10 %/-15 %)		
Power consumption		approx. 55 mA	approx. 30 mA		
Relay outputs	flow rate	1 SPDT contact, AC/DC 28 V, max. load 1 A	1 SPDT contact, AC/DC 28 V, max. load 1 A		
Flow Monitoring					
Flow response level adjustment (steplessly by means of a potentiometer)		0,1 I/min 10 I/min	2,5 I/min 250 I/min		
Repeatability (1)		± 5 %	± 10 %		
Response delay (2)		2,5 s with water	18 s with air		
Switch point drift through temperature change of the medium		approx. ± 1 %/°C / ±1,8 %/°F	approx. ± 2 %/°C / ± 3,6 %/°F		
Mechanical Data					
Time and size of manifest		EF 6 EF 12, 1/4"NPT, G3/8A	EF 10, EF 12, 1/4"NPT, G3/8A		
Type and size of monitoring head		inside pipe diameter 10 mm/3.98 in.	inside pipe diameter 10 mm/3.98 in.		
Pressure resistance (3)		20 bar/290 psi	20 bar/290 psi		
Degree of Protection	monitoring head	IP65	IP65		
Materials	fitting/sensor support	PVDF	PVDF		
	sensor	stainless steel 1.4571/AISI 316Ti	stainless steel 1.4571/AISI 316Ti		
	sealing	Viton®	Viton®		
	pipe connection EF	brass	brass		
	electronic control unit	ABS	ABS		
Housing dimensions (electronic control unit)		50 x 65 x 35 mm/ 1.97 x 2.56 x 1.38 in. (I x w x h)	50 x 65 x 35 mm/ 1.97 x 2.56 x 1.38 in. (I x w x h)		
Cable		none	none		

- (1) Of the set value, at constant temperature and flow conditions, and stable thermal conductivity.
- Delay with the switch point set to 1 m/s / 3.28 fps and the flow at 2 m/s / 6.56 fps, after a sudden complete stop.
- (3) Admissible operating pressure to DIN 2401, measured at the max. admissible temperature (= max. medium temperature)

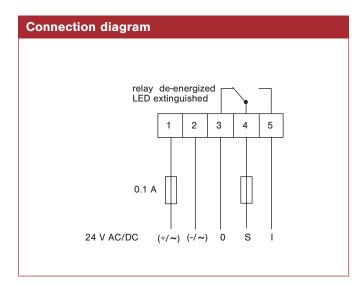
Viton® is a registered trade name of Dupont de Nemours.

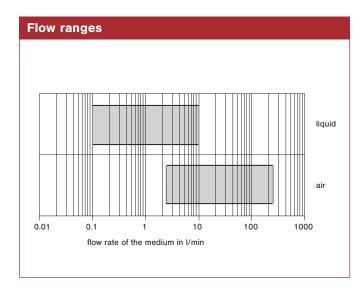
SFW 120-E/SLW 120-E | MIN or MAX Flow Monitors

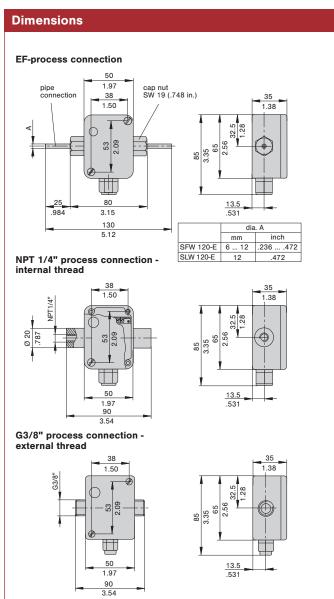


Ordering information

Flow Monitor				
SFW120-E for water and		d liquids with similar viscosities, with Ermeto head		
SLW120-E	for gases, with Ermeto head			
	Input voltage AC/DC 24 V			
	Pipe connections, diameter		ections, diameter	
		EF 6	(SFW120-E only)	
		EF 8	(SFW120-E only)	
		EF 10	(SFW and SLW)	
		EF 12	(SFW and SLW)	
		1/4"NPT	internal thread (SFW and SLW)	
		G3/8A	external thread (SFW and SLW)	
SFW120-E - AC/DC 24 V - EF10		EF10	ordering example	







This is a metric design and millimeter dimensions take precedence ($\frac{mm}{inch}$)