

- Flow range 200 ... 5,000 l/min
- Switch outputs 2x PNP or 2x NPN
- Analogue output 0 ... 10 V or 4 ... 20 mA
- Freely selectable pulse output for consumption measurement
- Illuminated LCD display
- As an individual unit or for installation in MS series service unit combinations

Detailed product information

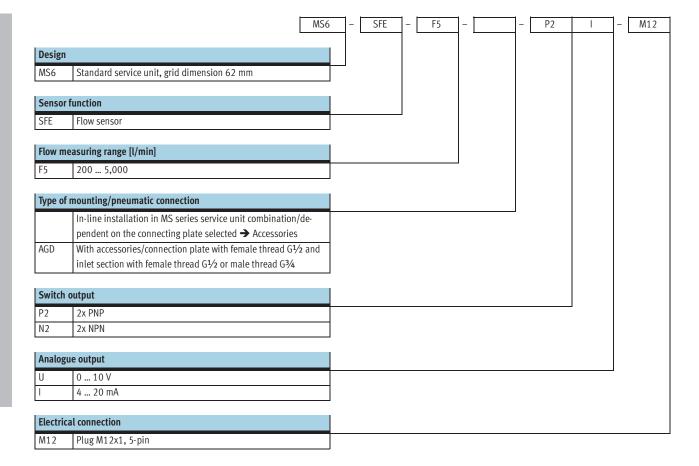
→ www.festo.com/catalogue/ms6-sfe

Product overview							
Method of measure-	Measured variable	Type of mounting	Flow measuring	Pneumatic connection	Pneumatic connection	Electrical output	
ment			range	1	2		
			[l/min]			Digital	Analogue
Flow sensor, thermal	Individual device						
	Flow	Via accessories	200 5,000	G½, G¾1)	G½	2x PNP	0 10 V
	Consumption						4 20 mA
						2x NPN	0 10 V
							4 20 mA
In MS series service unit combination							
	Flow	In-line installation	200 5,000	G½, G¾ ²⁾	G ¹ / ₂ , G ³ / ₄ ²⁾	2x PNP	0 10 V
	Consumption						4 20 mA
						2x NPN	0 10 V
							4 20 mA

2007/08 - Subject to change - Products 2008

Inlet section with female thread G½ and male thread G¾
 Dependent on connecting plate selected, must be ordered separately as an accessory → 96

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Flow sensors MS6-SFE

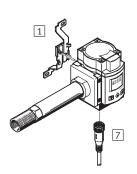
Technical data

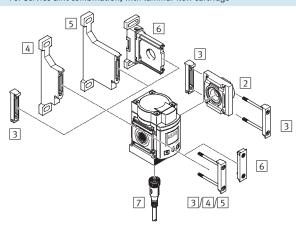
Technical data							
		Individual device	In MS series service unit combination				
Design							
Flow measuring range	[l/min]	200 5,000 ¹⁾					
Pneumatic connection 1		G½, G¾2)	G ¹ / ₂ , G ³ / ₄ ³⁾				
Pneumatic connection 2		G½	G ¹ / ₂ , G ³ / ₄ ³⁾				
Type of display		Illuminated LCD (optimised display)					
Accuracy ⁴⁾		+/- (3% o.m.v. + 0.3% FS)					
Electrical data							
Switch output		2x PNP					
		2x NPN					
Analogue output	[V]	010					
a.ogae output	[mA]	420					
Switching element function	[d	N/O contact					
Switching element function		N/C contact					
Switching function		Threshold value with variable hysteresis					
Switching function		Window comparator					
Operating voltage range DC	[V]	15 30					
Max. output current	[mA]	≤100					
Electrical connection	[118 4]	Straight plug, M12x1, 5-pin					
Protection against short circuit		Yes					
Protection class		IP65					
	1***						
Operating and environmental co		To 46					
Operating pressure	[bar]	0 16	and a filteration (Over				
Operating medium		Filtered compressed air, unlubricated, grade of filtration 40µm					
		Nitrogen					
A 11	[0.6]	Air quality class 5:4:3 to DIN ISO 8573-	1				
Ambient temperature	[°C]	0 50					
CE mark (see declaration of conf	ormity)	In accordance with EU EMC directive					
Certification		C-Tick					
Materials							
Housing		Die-cast aluminium, reinforced polyami	de				

- 1) Restricted at operating pressure < 5 bar, diagram → www.festo.com
 2) Inlet section with female thread G½ and male thread G¾
 3) Dependent on connecting plate selected, must be ordered separately as an accessory → 96
 4) % o.m.v. = % of measured value
 % FS = % of measuring range's final value (full scale)

Ordering data							
Variant	Flow measuring	Analogue output	Switch output				
	range		2x PNP		2x NPN		
	[l/min]		Part No.	Туре	Part No.	Туре	
Individual device							
	200 5,000	0 10 V	538 418	MS6-SFE-F5-AGD-P2U-M12	538 420	MS6-SFE-F5-AGD-N2U-M12	
		4 20 mA	538 417	MS6-SFE-F5-AGD-P2I-M12	538 419	MS6-SFE-F5-AGD-N2I-M12	
In MS series service unit comb	ination						
	200 5,000	0 10 V	538 422	MS6-SFE-F5-P2U-M12	538 424	MS6-SFE-F5-N2U-M12	
		4 20 mA	538 421	MS6-SFE-F5-P2I-M12	538 423	MS6-SFE-F5-N2I-M12	

For service unit combination, with laminar flow cartridge





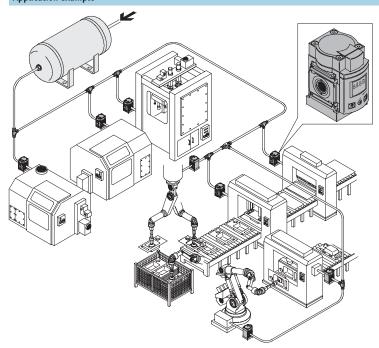
Acce	ssories
1	Mounting bracket MS6-WB
2	Connecting plate MS6-AG
	(included in scope of delivery for individual unit)
3	Module connector MS6-MV

Acce	Accessories					
4	Mounting bracket MS6-WP					
5	Mounting bracket MS6-WPB					
6	Mounting bracket MS6-WPM					
7	Connecting cable NEBU-M12G5					

Ordering data – Mounting attachments				
	Part No.	Туре		
C.	532 196	MS6-WB		
	526 082	MS6-AGD		
	526 083	MS6-AGE		
	532 799	MS6-MV		
	532 195	MS6-WP		
	526 074	MS6-WPB		
	526 073	MS6-WPM-D		
	532 186	MS6-WPM-2D		

Ordering data	Technical data → 229				
	Number	Cable	Part No.	Type	
	of wires	length [m]			
M12x1, straight socket					
1	5	2.5	541 330	NEBU-N	M12G5-K-2.5-LE5

Application example



• Compressed air consumption and function monitoring of various systems in the production process