

SmartLine® VersaFlow Sonic 1000 SM10 Size 1/2" to 160" Clamp-on

Model Selection Guide
36-SM-16-05 Issue 20

Model Selection Guide with Price Data

Honeywell Proprietary

- Installation at any location without process interruption
- Robust design for maximum reliability
- Easy and accurate sensor mounting using Aluminum or SS316L rail
- Low operating and installation costs
- Minimal maintenance with efficient re-greasing concept
- Rapid signal processing even with product and temperature changes and sudden changes in density
- Accurate plug & play replacement of electronics



Instructions

Select the desired key number. The arrow to the right marks the selection available.
Make the desired selections from Tables I through VIII using the column below the proper arrow. A dot (•) denotes availability.

Table	I	II	III	IV	V	VI	VII	VIII
SM10	4	---	---	---	---	---	---	---

List Price equals the sum of prices for all selections made.

KEY NUMBER	Description	Selection	Availability
SM10		SM10	↓

TABLE I

Sensor	4	•
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TABLE II

Nominal diameter	VersaFlow Sonic 1000 - small	DN 15 to DN 100 ; 1/2" to 4"	2	•
	VersaFlow Sonic 1000 - medium	DN 50 to DN 400 ; 2" to 16"	7	•
	VersaFlow Sonic 1000 - X-mode	DN200 to DN1250; 8" to 50"	B	•
	VersaFlow Sonic 1000 - large	DN 200 to DN 4000 ; 8" to 160"	E	r
	VersaFlow Sonic 1000 - large - Dual path	DN 200 to DN 4000 ; 8" to 160" (applied in dual path configuration)	F	s
Version	Standard, max. 120°C / 248°F		0	•
	Extended - XT (high temperature) and offshore, max. 200°C / 392°F.		1	•
Approvals	None	(only with TWS 9000 F)	0	•
	ATEX Zone 1	(only with TWS 9000 F)	1	q
	QPS Class 1 DIV 1(US) QPS Class 1 DIV 1(Canada)	(only with TWS 9000 F)	4	q
			B	q

TABLE III

Design	Separate with TWS 9000 M16 x 1.5 cable mounting	7	•
Converter	None	0	•
	TWS 9000 F/P (field mount / portable version)	D	•
	TWS 9000 W (wall mount version)	E	•

TABLE IV

Rail/Cover Material	SS 316 (L) / without cover	2	•
Cable length	6 m - 18 ft (fixed cable - small, medium or large in SP only)	0	•
	10 m - 30 ft (fixed cable - small, medium or large in SP only)	S	•
	11 m - 33 ft (6m - 18ft fixed cable, connection box and extension cable 5m - 15 ft)	1	•
	16 m - 48 ft (6m - 18ft fixed cable, connection box and extension cable 10m - 30 ft)	2	•
	21 m - 63 ft (6m - 18ft fixed cable, connection box and extension cable 15m - 45 ft)	3	•
	26 m - 78 ft (6m - 18ft fixed cable, connection box and extension cable 20m - 60 ft)	4	•
	31 m - 93 ft (6m - 18ft fixed cable, connection box and extension cable 25m - 75 ft)	5	•

TABLE V

Calibration	Standard, including calibration of transducer pair 3 point verification using a reference tube DN 100 - 4" (small/medium sensor); Verification of the system using a reference tube DN 1000 ; 40" (large sensor)	0	•
No Selection	None	3	•
		0	V

TABLE VI

Finish	Honeywell standard, grey	1	•
Protection class	IP 66 / 67	0	•
	IP 68	2	•

Calibration Table	Table V	Standard	Calibration(*)
Size	Table II	0	3
VersaFlow Sonic 1000 - small	2		
VersaFlow Sonic 1000 - medium	7		
VersaFlow Sonic 1000 - X-mode	B		
VersaFlow Sonic 1000 - large	E, F		

Version	Table II	Extended - XT
Size	Table II	1
VersaFlow Sonic 1000 - small	2	
VersaFlow Sonic 1000 - medium	7	
VersaFlow Sonic 1000 - X-mode	B	
VersaFlow Sonic 1000 - large	E	
VersaFlow Sonic 1000 - large	F	

Cable Length	Table II	Small/Medium	X-mode	Large
Table	Table IV	2,7	B	E, F
6 m - 18 ft	0			
10 m - 30 ft	S			
11 m - 33 ft	1			
16 m - 48 ft	2			
21 m - 63 ft	3			
26 m - 78 ft	4			
31 m - 93 ft	5			

(*) Calibration of the system using a reference tube DN 100
Verification of the system using a reference tube DN 1000 ; 40"

The minimum value of orders acceptable for Honeywell is Euro 500. Handling fee is the amount of the difference between EUR 500 and the actual purchase price.

TABLE VII

		Selection	Availability
Construction requirements	Standard	0 _ _ _	•
QA / QC requirements	Standard	_ 0 _ _	•
Custody Transfer	Standard, without	_ _ 0 _	•
Tagplate	None	_ _ _ 0	-
	316 1.4401 (120 x 46 mm)	_ _ _ 2	-
Instruction manual language (sensor only)	316 1.4401 (67 x 25 mm)	_ _ _ 3	-
	No manual for TWS 9000 F / W	_ _ _ 0	•
	German (sensor only)	_ _ _ 1	a
	English US (sensor only)	_ _ _ 3	a
	French (sensor only)	_ _ _ 4	a

TABLE VIII

Process Temperature	Standard	0 _ _ _	•
Extended application	Standard	_ 0 _ _	-
Extended nominal diameter	Standard	_ _ 0 _	•
Destination	Standard	_ _ _ 0	•

Note: The VersaFlow Sonic 1000 can only operate connected to the TWS 9000 converter (MSG # 36-SM-16-06; 36-SM-16-07 or 36-SM-16-08)

RESTRICTIONS

Letter	Restriction		Available only with		Not available with	
	Table	Selection	Table	Selection	Table	Selection
a	III	_ 0				
q	III	_ D				
r	IV	_ 0, _ S				
s	IV	_ 1, _ 2, _ 3, _ 4, _ 5				

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