

SMV 3000 Smart Multivariable Flow Transmitter Differential Pressure, Pressure, Process Temperature, Flowrate

Model Selection Guide With Price Data

Model Selection Guide
34-ST-16U-51 Issue 8

Honeywell Confidential & Proprietary

Instructions

- Select the desired Key Number. The arrow to the right marks the selection available.
 - Make one selection from each table, I and II, using the column below the proper arrow. |
Select as many Table III options as desired (if no options are desired, specify 00).
A dot denotes unrestricted availability. A letter denotes restricted availability.
Restrictions follow Table IV.
- Key Number I II III (Optional) IV
- _____ - _____ - _____ - _____ - XXXX

KEY NUMBER			Selection	Availability		
Differential Pressure Range		Pressure Range				
0-1" / 25" H2O	0-2.5 to 0-62.5 mbar	0-100 psia (7.0 bara)	SMA110	↓		
0-1" / 400" H2O	0-2.5 to 0-1000 mbar	0-750 psia (52.5 bara)	SMA125		↓	
0-1" / 400" H2O	0-2.5 to 0-1000 mbar	0-3,000 psig (210 barg)	SMG170			↓
See 13:TP-3, 4 and 8 for temperature probes.						
See 13:TP-9 through 12 for thermowells.						

TABLE I - METER BODY

	Process Heads	Vent/Drain Valves and Plugs	Barrier Diaphragms				
Material of Construction	Carbon Steel *	316 St. St.	316 LSS	A _ _	•	•	•
	Carbon Steel *	316 St. St.	Hastelloy C	B _ _		•	•
	Carbon Steel *	316 St. St.	Monel	C _ _		•	
	Carbon Steel *	316 St. St.	Tantalum	D _ _		•	
	316 St. St.	316 St. St.	316 LSS	E _ _	•	•	•
	316 St. St.	316 St. St.	Hastelloy C	F _ _		•	•
	316 St. St.	316 St. St.	Monel	G _ _		•	
	316 St. St.	316 St. St.	Tantalum	H _ _		•	
	Hastelloy C	Hastelloy C	Hastelloy C	J _ _		v	v
	Hastelloy C	Hastelloy C	Tantalum	K _ _		v	
	Monel	Monel	Monel	L _ _		v	
Fill Fluid	Silicone			_ 1 _	•	•	•
	CTFE			_ 2 _	•	•	•
Process Head Configuration	1/4" NPT			_ _ A	•	•	•
	1/2" NPT with Adapter (on 1/4" NPT Head)			_ _ H	t	t	t

* Carbon Steel heads are zinc-plated.

TABLE II

No Selection	00000	•	•	•
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TABLE III - OPTIONS

	SMX1XX Selection	Availability		
		10	25	70
None	00	•	•	•
Adapter Flange - 1/2" NPT St. Steel	S2	c	c	c
Adapter Flange - 1/2" NPT Hastelloy-C	T2		c	c
Adapter Flange - 1/2" NPT Monel	V2		c	
Modified DIN Process Heads - 316SS	DN	w	w	w
M20 316 SS Conduit Adaptor	A1	n	n	n
3/4" NPT 316 SS Conduit Adapter	A2	u	u	u
Viton Head Gaskets (1/2" adapter gaskets are special)	VT	•	•	z
Mounting Bracket - Carbon Steel	MB	•	•	•
Mounting Bracket - ST. ST.	SB	•	•	•
Flat Mounting Bracket	FB	•	•	•
Lightning Protection	LP	•	•	•
Analog Meter (0-100 Even 0-10 Square Root)	ME	•	•	•
Engineering Unit Meter (analog mode only)	EU	p	p	p
Custom Configuration of Engineering Unit Meter	CI	h	h	h
A286SS (NACE) Bolts and 302/304SS (NACE) Nuts for Heads and 316SS (NACE) Bolts for Adapters	CR	•	•	•
Stainless Steel Customer Wired-On Tag (4 lines, 28 characters per line, customer supplied information)	TG	•	•	•
Stainless Steel Customer Wired-On Tag (blank)	TB	•	•	•
Side Vent/Drain (End Vent Drain is standard)	SV	y	y	y
Custom Calibration and I.D. in Memory	CC	•	•	•
Multivariable Transmitter Configuration	MC	•	•	•
Write Protection	WP	•	•	•
End Cap Live Circuit Warning Label in Spanish (only with ATEX 3D)	SP	a	a	a
End Cap Live Circuit Warning Label in Portuguese (only with ATEX 3D)	PG	a	a	a
End Cap Live Circuit Warning Label in Italian (only with ATEX 3D)	TL	a	a	a
End Cap Live Circuit Warning Label in German (only with ATEX 3D)	GE	a	a	a
Clean Transmitter for Oxygen or Chlorine Service with Certificate	0X	j	j	j
Over-Pressure Leak Test with F3392 Certificate	TP	•	•	•
SS Center Vent Drain and Bushing	CV	g	g	g
Blind DIN SS Flanges Mounted with NACE Bolts	B2	d	d	d
Calibration Test Report and Certificate of Conformance (F3399)	F1	•	•	•
Certificate of Conformance (F3391)	F3	•	•	•
Certificate of Origin (F0195)	F5	•	•	•
NACE Certificate (F0198)	F7	o	o	o

Table III continued next page.

TABLE III - OPTIONS

	SMX1XX Selection	Availability			
		10	25	70	
Additional Warranty - 1 year	W1	•	•	•	b
Additional Warranty - 2 years	W2	•	•	•	
Additional Warranty - 3 years	W3	•	•	•	
Additional Warranty - 4 years	W4	•	•	•	
Laminar Flow Element Software	LF	•	•	•	

TABLE III - OPTIONS (continued)

Approval Body	Approval Type	Location or Classification	SMX1XX Selection	Availability			
				10	25	70	
None	None		9X				b
Factory Mutual	Explosion Proof	Class I, Div. 1, Groups A,B,C,D	1C	•	•	•	
	Dust Ignition Proof	Class II, Div. 1, Groups E,F,G					
	Suitable for use in	Class III, Div. 1					
	Non-Incendive	Class I, Div. 2, Groups A,B,C,D					
	Intrinsically Safe	Class I, II, III, Div. 1, Groups A,B,C,D,E,F,G -- T4 at Ta ≤ 93°C	1J	•	•	•	
	Explosion Proof	Class I, Div. 1, Groups B,C,D					
	Dust Ignition Proof	Class II, Div. 1 Groups E,F,G					
	Suitable for use in	Class III, Div. 1					
	Non-Incendive	Class I, Div. 2, Groups A,B,C,D					
	Intrinsically Safe	Class I, II, III, Div. 1, Groups A,B,C,D,E,F,G -- T4 at Ta ≤ 93°C					
CSA	Explosion Proof	Class I, Div. 1, Groups B,C,D	2J	•	•	•	
	Dust Ignition Proof	Class II, III, Div. 1, Groups E,F,G					
	Suitable for use in	Class I, II, III, Div. 2, Groups A,B,C,D,E,F,G					
	Intrinsically Safe	Class I, II, III, Div. 1, Groups A,B,C,D,E,F,G -- T4 at Ta ≤ 93°C					
ATEX*	Intrinsically Safe Zone 0/1	Ⓔ II 1 G EEx ia IIC T5	3S	•	•	•	
	Flameproof, zone 1	Ⓔ II 2 G EEx d IIC T6, Enclosure IP 66/67	3D	•	•	•	
	Non-Sparking Zone 2	Ⓔ II 3 G EEx nA, IIC T6 Vmax = 42 Vdc T4 at Ta = 93°C T5 at Ta = 80°C T6 at Ta = 65°C (Honeywell). Enclosure IP 66/67	3N	•	•	•	
INMETRO (Brazil)	Flameproof, Zone 1	Ex d IIC T5	6D	•	•	•	

*See ATEX installation requirements in the ST 3000 User's Manual

97/23/EC Pressure Equipment Directive (PED)

The ST 3000 pressure transmitters listed in this Model Selection Guide are in conformity with the essential requirements of the PED. A formal statement from TÜV Industry Service Group of TÜV America, Inc., a division of TÜV Süddeutschland, a Notified Body regarding the Pressure Equipment Directive, is available upon request

TABLE IV

Factory Identification	XXXX	•	•	•
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RESTRICTIONS

Restriction		Available Only With		Not Available With
Letter	Table	Selection	Table	Selection
a	III	3D		
b		Select only one option from this group.		
c	I	_ _ H		
d	I III	E _ A, F _ A, G _ A, H _ A DN	III	SV, CV
g			I III	J _ _ , K _ _ , L _ _ SV, B2
j	I	_ 2 _		
n			III	1C, 1J, 2J
o	III	CR or B2		
p			III	Functions in the analog mode only.
t	III	S2, T2 or V2		
u	III	1C, 1J, 2J		
v		Includes side vent drain - no price add.		
w	I	E _ A, F _ A, G _ A, H _ A	III	SV
y			III	DN, B2, CV

Example: SMA125-E1A-00000-MB,MC,1C + XXXX