

SmartLine® VersaFlow Mag 1000 MM12 Size 28" to 80"

Model Selection Guide
36-MM-16-16 Issue 25

Model Selection Guide with Price Data

Honeywell Proprietary



- Drinking water approvals including KTW, WRc, KIWA, ACS
- Proven and unsurpassed lifetime
- Maintenance free
- In situ verification with HONEYWELL MagCheck
- Compliance with OIML R-49 and ISO 4064
- Optionally permanently submersible, buried underground

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
MM12	4	--	--	---	--	---	---	---

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

KEY NUMBER	Description	Selection	Availability
MM12		MM12	↓

TABLE I

Flow sensor	4	•
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TABLE II

Nominal diameter	DN 700 / 28"	Hardrubber	P_	•
	DN 800 / 32"	Hardrubber	R_	•
	DN 900 / 36"	Hardrubber	S_	•
	DN 1000 / 40"	Hardrubber	T_	•
	DN 1200 / 48"	Hardrubber	U_	•
	DN 1400 / 56"	Hardrubber	V_	•
	DN 1600 / 64"	Hardrubber	W_	•
	DN 1800 / 72"	Hardrubber	X_	•
	DN 2000 / 80"	Hardrubber	Y_	•
Nominal pressure	PN 6 EN 1092-1 (DN 1200 - DN 2000)		_1	a
	PN 10 EN 1092-1 (DN 700 - DN 1000)		_2	h
	PN 16 EN 1092-1 (DN 700 - DN 1000)		_3	h
	JIS 10K (DN 700 - DN 1400)		_N	k
	Class D AWWA Note: 150#/300# flanges are available by special request in select sizes		_W	•

TABLE III

Approvals	None		0_	•
	FM Class 1 DIV 2 (Converter TWM 9000 C or TWM 9000 F)		5_	q
	CSA Class 1 DIV 2 (Converter TWM 9000 C or TWM 9000 F)		C_	q
System design	Compact with aluminum converter housing at converter cable mounting		_1	•
	Compact with stainless steel converter housing at converter cable mounting		_2	•
	Separate with aluminum connection box 1/2" NPT cable mounting		_4	•
	Separate with aluminum connection box PF 1/2 cable mounting		_5	•
	Separate with aluminum connection box M20 x 1.5 cable mounting		_6	•
	Separate with stainless steel connection box 1/2" NPT cable mounting		_A	•
	Separate with stainless steel connection box PF 1/2 cable mounting		_B	•
	Separate with stainless steel connection box M20 x 1.5 cable mounting		_C	•

TABLE IV

Converter Model	Without Converter (replacement sensor only)		0_	g
	TWM 1000 C (compact design)	Requires a separate MSG # to be entered. Either: MM90 MSG # 36-MM-16-05; MM91 MSG # 36-MM-16-06; MM92 MSG # 36-MM-16-07; or MM95 MSG # 36-MM-16-12	3_	c
	TWM 1000 W (wall mount DS cable only)		4_	l
	TWM 9000 C (compact design)		C_	d
	TWM 9000 F (field mount version)		D_	g
	TWM 9000 W (wall mount version)		E_	g
TWM 9000 R (rack mount version)	F_		g	
Lining	Standard - Hardrubber		_0_	•
Electrodes (fixed)	Stainless steel DIN 1.4571 - 316 Ti		_1	•
	Hastelloy C4		_3	•
	Titanium		_6	•
	Hastelloy C22 (standard)		_B	•

TABLE V

Construction of electrodes	Fixed	1_	•
Housing/Flange	Carbon steel St 37-C22 / A 105	_1	•

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

TABLE VI

		Selection	Availability
Protection class	IP 66 / 67 standard dimension	0 _ _ _	•
	IP 68 field standard dimension (only with stainless st. connection box)	1 _ _ _	e
	IP 68 factory standard dimension (only with stainless st. connection box) (Note 1)	2 _ _ _	e
Cable	Compact - without / separate DS	_ 0 _ _	•
	Separate BTS	_ 1 _ _	•
	Separate LIYCY (only for FM / CSA Class 1 DIV 2)	_ 2 _ _	j
	Without Cable (replacement sensor only)	_ Y _ _	y
Cable length	With TWM Compact converter - no cable / Other converters receive a separate Double Shielded (DS) Cable	_ _ 0 _	•
	10 m - 30 ft	_ _ 1 _	•
	15 m - 45 ft	_ _ 2 _	•
	20 m - 60 ft	_ _ 3 _	•
	25 m - 75 ft	_ _ 4 _	•
	30 m - 90 ft	_ _ 5 _	•
	40 m - 120 ft	_ _ 6 _	•
	50 m - 150 ft	_ _ 7 _	•
	100 m - 300 ft	_ _ 8 _	•
	Without Cable (replacement sensor only)	_ _ Y _	y
Calibration	Standard	_ _ _ 0	•
	316 / 1.4401 tagplate (120 x 46 mm) 4 lines, 25 characters each line max.	_ _ _ 2	•
	316 / 1.4401 tagplate (67 x 25 mm) 4 lines, 25 characters each line max.	_ _ _ 3	•
		_ _ _ _	•

TABLE VII

Ring	None	0 _ _ _ _	•
	Ring #1 1.4404 - 316L material	6 _ _ _ _	•
	Ring #3 1.4404 - 316L material	E _ _ _ _	m
	Protection ring #2 1.4404 - 316L material	P _ _ _ _	p
No Selection	None	_ 0 V _ _	•
Construction requirements	Standard	_ _ _ 0 _	•
QA / QC requirements	Standard	_ _ _ _ 0	•

TABLE VIII

No Selection	None	0000	•
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Note 1: IP 68 factory comes with DS/LIYCY or BTS/LIYCY cables.

RESTRICTIONS

Restriction Letter	Table	Available only with	Not available with	
		Selection	Table	Selection
a	II	U _ , V _ , W _ , X _ , Y _		
c	II	P 1, P 2, R 1, R 2, S 1, S 2, T 1, T 2, U 1, U 2		
	III	0 1		
	VI	0 0 0 _		
d	III	_ 1		
	VI	_ 0 _		
e	III	_ A, _ B, _ C		
g	III	4, 5, 6, A, B, C		
h	II	P _ , R _ , S _ , T _		
j	III	5, C _		
	VI	2 _ _ _		
k	II	P _ , R _ , S _ , T _ , U _ , V _		
l	III	0 4, 0 5, 0 6, 0 A, 0 B, 0 C		
	VI	_ 0 _ _		
m	II	P 2, R 2, S 2, T 2		
p	II	P 2, R 2		
q	III	_ 4, _ 6, _ A, _ C		
	IV	D _ _ 0 _ _		
	VI	0 _ _ _ , 2 _ _ _		
	OR			
	III	_ 1		
	IV	C _ _		
VI	0 0 0 _ , 2 0 0 _			
y	IV	0 _ _	III	_ 1, _ 2

Cable Table:

			Length (meters)									
		Table VI	Table VI	0	1	2	3	4	5	6	7	8
Protection	Table VI	Cable	Table VI	5/ Compact	10	15	20	25	30	40	50	100
IP 66 / 67	0	DS	0									
IP 68 field	1	DS	0									
IP 68 factory	2	DS/LIYCY	0									
IP 66 / 67	0	BTS	1									
IP 68 field	1	BTS	1									
IP 68 factory	2	BTS/LIYCY	1									
IP 68 factory	2	LIYCY/LIYCY	2									

Flange Table

			Nominal Pressure				
		Table II	PN 6	PN 10	PN 16	JIS 10K	Class D
DN	Inch	Table II	1	2	3	N	W
700	28"	P					
800	32"	R					
900	36"	S					
1000	40"	T					
1200	48"	U					
1400	56"	V					
1600	64"	W					
1800	72"	X					
2000	80"	Y					

Ring Table: Set of 2

Material			Table VII	None	Ring #1	Ring #3	Protection ring #2
DN	Inch	Nom Pressure	Table II	0	316 SS	316 SS	316 SS
DN	Inch	Nom Pressure	Table II	0	6	E	P
700	28"	PN 6	P 1				
		PN 10	P 2				
800	32"	PN 6	R 1				
		PN 10	R 2				
900	36"	PN 6	S 1				
		PN 10	S 2				
1000	40"	PN 6	T 1				
		PN 10	T 2				
1200	48"	PN 6	U 1				
		PN 10	U 2				
1400	56"	PN 6	V 1				
		PN 10	V 2				
1600	64"	PN 6	W 1				
		PN 10	W 2				
1800	72"	PN 6	X 1				
		PN 10	X 2				
2000	80"	PN 6	Y 1				
		PN 10	Y 2				

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