

## SmartLine® VersaFlow Mag 1000 MM10 Size 1" to 6"

## Model Selection Guide with Price Data

Model Selection Guide  
36-MM-16-14 Issue 28

Honeywell Proprietary

- Drinking water approvals including KTW, WRc, KIWA
- Proven and unsurpassed lifetime
- Maintenance free
- 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
MM10	4	--	--	---	--	----	-----	-----

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

KEY NUMBER	Description	Selection Availability
MM10		MM10 ↓

### TABLE I

Flow sensor	4	•
-------------	---	---

### TABLE II

Nominal diameter	DN 25 / 1"	PP	4 _	•
	DN 32 /	PP	5 _	•
	DN 40 / 1 1/2"	PP	6 _	•
	DN 50 / 2"	PP	7 _	•
	DN 65 /	PP	8 _	•
	DN 80 / 3"	PP	A _	•
	DN 100 / 4"	PP	B _	•
	DN 125 /	PP	C _	•
	DN 150 / 6"	PP	D _	•
Nominal pressure	PN 16 EN 1092-1		_3	h
	PN 40 EN 1092-1		_5	•
	ASME B 16.5 150 lb RF		_A	•
	ASME B 16.5 300 lb RF		_B	•
	JIS 20 K	(DN 25 / 1" - DN 40 / 1 1/2")	_M	a
	JIS 10 K	(DN 50 / 2" - DN 150 / 6")	_N	b

### TABLE III

Approvals	None		0 _	•
	EEx zone 1 ( Converter TWM 9000 C or F & TWM 1000 C or W )		1 _	x
	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	•

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 IV

		Selection Availability
Converter Model	Without Converter (replacement sensor only)	0 _ _ g
	TWM 1000 C (compact design)	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	_ 0 _ v
	Hardrubber	_ 5 _ •
	Hardrubber Only Material Available for Size DN32 and DN65 with ANSI 150 or 300 # flanges)	_ 8 _ t
	PP - provided for protection rings	_ T _ n
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 _ •
Flange/ Housing material	Carbon steel St 37-C22 / A 105 flange material	_ 1 •
	Stainless steel DIN 1.4404 - 316 L flange material	_ 3 •
	Carbon steel St 37-C22 / A 105 flange material -	_ A w
	Stainless steel DIN 1.4404 - 316 L flange material	_ C w

TABLE VI

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)	2 _ _ e
	IP 66 / 67 ISO 13359 dimension	3 _ _ i
	IP 68 field ISO 13359 dimension (only with stainless st. connection box)	4 _ _ f
	IP 68 factory ISO 13359 dimension (only with stainless st. connection box)	5 _ _ f
Cable	WithTWM Compact converter, no cable / Other converters receive a separate Double Shielded (DS) Cable	_ 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	Compact - none / separate - 5 m - 15 ft	_ _ 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 Titanium material	5 _ _ m
	Ring #1 1.4404 - 316L Material	6 _ _ •
	Ring #1 Hastelloy C22material	7 _ _ m
	Ring #3 1.4404 - 316L Material	E _ _ m
	Protection ring #2 Titanium material	N _ _ m
	Protection ring #2 1.4404 - 316L Material	P _ _ •
	Protection ring #2 Hastelloy C22material	R _ _ m
No Selection	None	_ 0 V _ •
Construction requirements	Standard	_ _ 0 •
QA / QC requirements	Standard	_ _ _ 0 •

TABLE VIII

No Selection	None	0000 •
--------------	------	--------

Note 1: IP 68 factory comes with DS/LIYCY or BTS/LIYCY cables.

**RESTRICTIONS**

Restriction		Available only with	Not available with	
Letter	Table	Selection	Table	Selection
a	V	_ 1, _ A	II	4 _, 5 _, 6 _
b	II	7 _, 8 _, A _, B _, C _, D _		
	V	_ 1		
c	III	0 1, 0 2, 1 1, 1 2		
	VI	0 0 0 _		
d	III	_ 1, _ 2		
	VI	0 0 0 _, 3 0 0 _		
e	III	_ A, _ B, _ C		
f	III	_ A, _ B, _ C		
	IV	D _, E _, F _		
g	III	_ 4, _ 5, _ 6, _ A, _ B, _ C		
h	II	8 _, B, C, D _		
i	II	_ 3, _ 5, _ M, _ N		
j	III	5, C _		
	VI	2 _ _ _ , 5 _ _ _		
l	III	0 4, 0 5, 0 6, 0 A, 0 B, 0 C, 1 4, 1 5, 1 6, 1 A, 1 B, 1 C		
	VI	_ 0 _ _		
m	II	4 _, 5 _, 6 _		
	II	_ 5, _ A, _ M		
	<b>OR</b>	<b>OR</b>		
	II	7, A _		
	II	_ 5, _ A, _ N		
	<b>OR</b>	<b>OR</b>		
	II	8, B, C, D _		
II	_ 3, _ A, _ N			
n	VII	N _ _ _ _ , P _ _ _ _ , R _ _ _ _	II	5 A, 5 B, 8 A, 8B
q	III	_ 4, _ 6, _ A, _ C		
	IV	D _ _ , 0 _ _		
	VI	0 _ _ _ , 2 _ _ _		
	<b>OR</b>	<b>OR</b>		
	III	_ 1, _ 2		
	IV	C _ _		
VI	0 0 0 _ , 2 0 0 _			
t	III	0 _		
v			VII	N _ _ _ _ , P _ _ _ _ , R _ _ _ _
			II	5 A, 5 B, 8 A, 8B
w	III	_ A, _ B, _ C		
	IV	_ 0, _ T _		
x	III	_ 1, _ 2		
	IV	3 0 _, 3 T _, C 0 _, C T _		
	<b>OR</b>	<b>OR</b>		
	III	_ 4, _ 5, _ 6, A, B, C _		
IV	3 0 _, 3 T _, D 0 _ , D T _ , 0 0 _ , 0 T _			
y	IV	0 _ _	III	_ 1, _ 2

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.

Flange Table:			Flange/Housing					
			Steel/Steel					
Table V			_ 1	_ 1	_ 1	_ 1	_ 1	_ 1
Table II			PN16	PN25	PN40	150 lb	300 lb	JIS 20 K
Table II			_ 3	_ 4	_ 5	_ A	_ B	_ M
DN	Inch	Table II						
25	1"	4 _						
32		5 _						
40	1 1/2"	6 _						
50	2"	7 _						
65		8 _						
80	3"	A _						
100	4"	B _						
125		C _						
150	6"	D _						
			Stainless Steel/Steel					
Table V			_ 3	_ 3	_ 3	_ 3	_ 3	_ 3
Table II			PN16	PN25	PN40	150 lb	300 lb	JIS 20 K
Table II			_ 3	_ 4	_ 5	_ A	_ B	_ M
DN	Inch	Table II						
25	1"	4 _						
32		5 _						
40	1 1/2"	6 _						
50	2"	7 _						
65		8 _						
80	3"	A _						
100	4"	B _						
125		C _						
150	6"	D _						
			Steel/Stainless Steel					
Table V			_ A	_ A	_ A	_ A	_ A	_ A
Table II			PN16	PN25	PN40	150 lb	300 lb	JIS 20 K
Table II			_ 3	_ 4	_ 5	_ A	_ B	_ M
DN	Inch	Table II						
25	1"	4 _						
32		5 _						
40	1 1/2"	6 _						
50	2"	7 _						
65		8 _						
80	3"	A _						
100	4"	B _						
125		C _						
150	6"	D _						
			Stainless Steel/Stainless Steel					
Table V			_ C	_ C	_ C	_ C	_ C	_ C
Table II			PN16	PN25	PN40	150 lb	300 lb	JIS 20 K
Table II			_ 3	_ 4	_ 5	_ A	_ B	_ M
DN	Inch	Table II						
25	1"	4 _						
32		5 _						
40	1 1/2"	6 _						
50	2"	7 _						
65		8 _						
80	3"	A _						
100	4"	B _						
125		C _						
150	6"	D _						

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.

**Cable Table:**

			Length (meters)									
		Table VI										
Protection	Table VI	Cable	Table VI	0	1	2	3	4	5	6	7	8
			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									
IP 66 / 67	3	DS	0									
IP 68 field	4	DS	0									
IP 68 factory	5	DS/LIYCY	0									
IP 66 / 67	3	BTS	1									
IP 68 field	4	BTS	1									
IP 68 factory	5	BTS/LIYCY	1									
IP 68 factory	5	LIYCY/LIYCY	2									

**Ring Table: Set of 2**

Material			Table VII	None	Ring #1	Ring #1	Ring #1	Ring #3	Protection ring #2	Protection ring #2	Protection ring #2
				Titanium	316 SS	Hast. C	316 SS	Titanium	316 SS	Hast. C	
DN	Inch	Nom Pressure	Table II	0	5	6	7	E	N	P	R
25	1"	PN 16	4 3								
		PN 25	4 4								
		PN 40	4 5								
		150 lb RF	4 A								
		300 lb RF	4 B								
		JIS 20 K	4 M								
		JIS 10 K	4 N								
32	1 1/4"	PN 16	5 3								
		PN 25	5 4								
		PN 40	5 5								
		150 lb RF	5 A								
		300 lb RF	5 B								
		JIS 20 K	5 M								
		JIS 10 K	5 N								
40	1 1/2"	PN 16	6 3								
		PN 25	6 4								
		PN 40	6 5								
		150 lb RF	6 A								
		300 lb RF	6 B								
		JIS 20 K	6 M								
		JIS 10 K	6 N								
50	2"	PN 16	7 3								
		PN 25	7 4								
		PN 40	7 5								
		150 lb RF	7 A								
		300 lb RF	7 B								
		JIS 20 K	7 M								
		JIS 10 K	7 N								
65	2 1/2"	PN 16	8 3								
		PN 25	8 4								
		PN 40	8 5								
		150 lb RF	8 A								
		300 lb RF	8 B								
		JIS 20 K	8 M								
		JIS 10 K	8 N								

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.

**Ring Table: Set of 2 (cont'd)**

Material			Table VII	None	Ring #1	Ring #1	Ring #1	Ring #3	Protection ring #2	Protection ring #2	Protection ring #3
				0	Titanium	316 SS	Hast. C	316 SS	Titanium	316 SS	Hast. C
DN	Inch	Nom Pressure	Table II	0	5	6	7	E	N	P	R
80	3"	PN 16	A 3								
		PN 25	A 4								
		PN 40	A 5								
		150 lb RF	A A								
		300 lb RF	A B								
		JIS 20 K	A M								
		JIS 10 K	A N								
100	4"	PN 16	B 3								
		PN 25	B 4								
		PN 40	B 5								
		150 lb RF	B A								
		300 lb RF	B B								
		JIS 20 K	B M								
		JIS 10 K	B N								
125	4"	PN 16	C 3								
		PN 25	C 4								
		PN 40	C 5								
		150 lb RF	C A								
		300 lb RF	C B								
		JIS 20 K	C M								
		JIS 10 K	C N								
150	6"	PN 16	D 3								
		PN 25	D 4								
		PN 40	D 5								
		150 lb RF	D A								
		300 lb RF	D B								
		JIS 20 K	D M								
		JIS 10 K	D N								

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.