

SmartLine[®] VersaFlow Mag 1000 MM11 Size 8" to 24"

Model Selection Guide
36-MM-16-15 Issue 29

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
MM11	4	--	--	---	--	----	-----	-----

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

KEY NUMBER	Description	Selection	Availability
MM11		MM11	↓

TABLE I

Flow sensor	Selection	Availability
	4	•

TABLE II

Nominal diameter	Description	Selection	Availability
DN 200 / 8"	Hardrubber	E _	•
DN 250 / 10"	Hardrubber	F _	•
DN 300 / 12"	Hardrubber	G _	•
DN 350 / 14"	Hardrubber	H _	•
DN 400 / 16"	Hardrubber	K _	•
DN 450 / 18"	Hardrubber	L _	•
DN 500 / 20"	Hardrubber	M _	•
DN 600 / 24"	Hardrubber	N _	•
Nominal pressure	Description	Selection	Availability
PN 10	EN 1092-1	_ 2	•
PN 16	EN 1092-1	_ 3	•
PN 25	EN 1092-1	_ 4	•
PN 40	EN 1092-1	_ 5	•
	ASME B 16.5 150 lb RF	_ A	•
	ASME B 16.5 300 lb RF	_ B	•
	JIS 10 K	_ N	•

TABLE III

Approvals	Description	Selection	Availability
None		0 _	•
EEx zone 1	(Converter TWM 9000 C or F & TWM 1000 C or W)	1 _	t
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	Description	Selection	Availability
	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	Description	Selection	Availability
Without Converter (replacement sensor only)		0 _ _	g
TWM 1000 C	(compact design)	3 _ _	c
TWM 1000 W	(wall mount DS Cable only)	4 _ _	i
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	Description	Selection	Availability
	Standard - Hardrubber	_ 0 _	•
Electrodes (fixed)	Description	Selection	Availability
	Stainless steel DIN 1.4571 - 316 Ti	_ _ 1	•
	Hastelloy C4	_ _ 3	•
	Titanium	_ _ 6	•
	Hastelloy C22 (standard)	_ _ B	•

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 V

		Selection	Availability
Construction of electrodes	Fixed	1 _	•
Housing/Flange material	Steel Housing	_ 1	k
	Steel Housing	_ 3	o
	Carbon steel St 37-C22 / A 105 flange material		
	Stainless steel DIN 1.4404 / 316 L flange material		

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)	(Note 1)	2 _ _	e
	IP 66 / 67	ISO 13359 dimension		3 _ _	•
	IP 68 field	ISO 13359 dimension (only with stainless st. connection box)		4 _ _	e
	IP 68 factory	ISO 13359 dimension (only with stainless st. connection box)	(Note 1)	5 _ _	e
Cable	With TWVM 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
Calibration	Standard			_ _ 0	•
	316 / 1.4401 tagplate (120 x 46 mm) 4 lines, 25 characters each line max.			_ _ 1	•
	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	•
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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
c	III	0 1, 0 2, 1 1, 1 2		
	VI	0 0 0 _		
d	III	_ 1		
	VI	_ 0 0 _		
e	III	_ A, _ B, _ C		
g	III	_ 4, _ 5, _ 6, _ A, _ B, _ C		
j	III	5 _ C _		
	VI	2 _ _ _ 5 _ _ _		
k			II	H 5, K 5, L 5, M 5, N 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	E _ F _ G _ H _		
	II	_ 2, _ A		
o			II	L 3, H 4, K 4, L 4, M 4, N 4, H 5, K 5, L 5, M 5, N 5, H B, K B, L B, M B, N B, _ N
q	III	_ 4, _ 6, _ A, _ C		
	IV	D _ _ 0 _ _		
	VI	0 _ _ _ 2 _ _ _		
	OR	OR		
	III	_ 1		
	IV	C _ _		
t	VI	0 0 0 _ 2 0 0 _		
	III	_ 1, _ 2		
	IV	3 _ _ C _ _		
	OR	OR		
	III	_ 4, _ 5, _ 6, _ A, _ B, _ C		
y	IV	4 _ _ D _ _ 0 _ _		
	IV	0 _ _	III	_ 1, _ 2

Cable Table:

			Length (meters)									
			Table VI	__ 0 __	__ 1 __	__ 2 __	__ 3 __	__ 4 __	__ 5 __	__ 6 __	__ 7 __	__ 8 __
Protection	TableVI	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 __									
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 __									

Flange Table:

				Nominal Pressure							
0				Table II	__ 2 __	__ 3 __	__ 4 __	__ 5 __	__ A __	__ B __	__ N __
DN	Inch	Table II	Flange	Table V	PN 10	PN 16	PN 25	PN 40	150 lb RF	300 lb RF	JIS 10 K
200	8"	E _	Carbon Steel	__ 1 __							
200	8"	E _	Stainless Steel	__ 3 __							
250	10"	F _	Carbon Steel	__ 1 __							
250	10"	F _	Stainless Steel	__ 3 __							
300	12"	G _	Carbon Steel	__ 1 __							
300	12"	G _	Stainless Steel	__ 3 __							
350	14"	H _	Carbon Steel	__ 1 __							
350	14"	H _	Stainless Steel	__ 3 __							
400	16"	K _	Carbon Steel	__ 1 __							
400	16"	K _	Stainless Steel	__ 3 __							
450	18"	L _	Carbon Steel	__ 1 __							
450	18"	L _	Stainless Steel	__ 3 __							
500	20"	M _	Carbon Steel	__ 1 __							
500	20"	M _	Stainless Steel	__ 3 __							
600	24"	N _	Carbon Steel	__ 1 __							
600	24"	N _	Stainless Steel	__ 3 __							

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Approval Table				Approval						
0				Table III	1 _	3 _	5 _	A _	C _	D _
DN	Inch	Table II	Converter	Table IV	EEx zone 1	EEx zone 2	FM Class 1 DIV 2	CSA GP	CSA Class 1 DIV 2	NEPSI zone 1
200	8"	E _	TWM 1000 C	3 _						
200	8"	E _	TWM 1000 W	4 _						
200	8"	E _	TWM 9000 C	C _						
200	8"	E _	TWM 9000 F	D _						
200	8"	E _	TWM 9000 W	E _						
200	8"	E _	TWM 9000 R	F _						
250	10"	F _	TWM 1000 C	3 _						
250	10"	F _	TWM 1000 W	4 _						
250	10"	F _	TWM 9000 C	C _						
250	10"	F _	TWM 9000 F	D _						
250	10"	F _	TWM 9000 W	E _						
250	10"	F _	TWM 9000 R	F _						
300	12"	G _	TWM 1000 C	3 _						
300	12"	G _	TWM 1000 W	4 _						
300	12"	G _	TWM 9000 C	C _						
300	12"	G _	TWM 9000 F	D _						
300	12"	G _	TWM 9000 W	E _						
300	12"	G _	TWM 9000 R	F _						
350	14"	H _	TWM 1000 C	3 _						
350	14"	H _	TWM 1000 W	4 _						
350	14"	H _	TWM 9000 C	C _						
350	14"	H _	TWM 9000 F	D _						
350	14"	H _	TWM 9000 W	E _						
350	14"	H _	TWM 9000 R	F _						
400	16"	K _	TWM 1000 C	3 _						
400	16"	K _	TWM 1000 W	4 _						
400	16"	K _	TWM 9000 C	C _						
400	16"	K _	TWM 9000 F	D _						
400	16"	K _	TWM 9000 W	E _						
400	16"	K _	TWM 9000 R	F _						
450	18"	L _	TWM 1000 C	3 _						
450	18"	L _	TWM 1000 W	4 _						
450	18"	L _	TWM 9000 C	C _						
450	18"	L _	TWM 9000 F	D _						
450	18"	L _	TWM 9000 W	E _						
450	18"	L _	TWM 9000 R	F _						
500	20"	M _	TWM 1000 C	3 _						
500	20"	M _	TWM 1000 W	4 _						
500	20"	M _	TWM 9000 C	C _						
500	20"	M _	TWM 9000 F	D _						
500	20"	M _	TWM 9000 W	E _						
500	20"	M _	TWM 9000 R	F _						
600	24"	N _	TWM 1000 C	3 _						
600	24"	N _	TWM 1000 W	4 _						
600	24"	N _	TWM 9000 C	C _						
600	24"	N _	TWM 9000 F	D _						
600	24"	N _	TWM 9000 W	E _						
600	24"	N _	TWM 9000 R	F _						

Ring Table: Set of 2				None	Ring #1	Ring #1	Ring #1	Ring #3	Protection ring #2	Protection ring #2	Protection ring #2
Material					Titanium	316 SS	Hast. C	316 SS	Titanium	316 SS	Hast. C
				Table VII	0	5	6	7	E	N	P
DN	Inch	Nom Pressure	Table II								
200	8"	PN 10	E 2								
		PN 16	E 3								
		PN 25	E 4								
		PN 40	E 5								
		150 lb RF	E A								
		300 lb RF	E B								
		JIS 20 K	E M								
		JIS 10 K	E N								
250	10"	PN 10	F 2								
		PN 16	F 3								
		PN 25	F 4								
		PN 40	F 5								
		150 lb RF	F A								
		300 lb RF	F B								
		JIS 20 K	F M								
		JIS 10 K	F N								
300	12"	PN 10	G 2								
		PN 16	G 3								
		PN 25	G 4								
		PN 40	G 5								
		150 lb RF	G A								
		300 lb RF	G B								
		JIS 20 K	G M								
		JIS 10 K	G N								
350	14"	PN 10	H 2								
		PN 16	H 3								
		PN 25	H 4								
		PN 40	H 5								
		150 lb RF	H A								
		300 lb RF	H B								
		JIS 20 K	H M								
		JIS 10 K	H N								

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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 #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
400	16"	PN 10	K 2								
		PN 16	K 3								
		PN 25	K 4								
		PN 40	K 5								
		150 lb RF	K A								
		300 lb RF	K B								
		JIS 20 K	K M								
		JIS 10 K	K N								
450	18"	PN 10	L 2								
		PN 16	L 3								
		PN 25	L 4								
		PN 40	L 5								
		150 lb RF	L A								
		300 lb RF	L B								
		JIS 20 K	L M								
		JIS 10 K	L N								
500	20"	PN 10	M 2								
		PN 16	M 3								
		PN 25	M 4								
		PN 40	M 5								
		150 lb RF	M A								
		300 lb RF	M B								
		JIS 20 K	M M								
		JIS 10 K	M N								
600	24"	PN 10	N 2								
		PN 16	N 3								
		PN 25	N 4								
		PN 40	N 5								
		150 lb RF	N A								
		300 lb RF	N B								
		JIS 20 K	N M								
		JIS 10 K	N N								

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