

- Fully functional ceramic lined design flow sensor
 - Quick and easy to install and operate
 - Available in sizes 6" to 10"
 - Excellent abrasion resistance
 - Excellent chemical resistance
 - Maintenance free
- Conductivity: non water >1 uS/cm; water >20 uS/cm

Instructions

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

Table	I	II	III	IV	V	VI	VII	VIII
MM53	4	---	-	---	--	--	---	---



KEY NUMBER	Description	Selection	Availab
MM53		MM53	↓

TABLE I - Flow Sensor

Flow Sensor	4	•
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TABLE II

Nominal Diameter	DN 150 / 6"	Ceramic	H ___	•
	DN 200 / 8"	Ceramic	K ___	•
	DN 250 / 10"	Ceramic	L ___	•
	DN 300 / 12"	Ceramic	M ___	•
Nominal Pressure	PN 10 EN 1092-1	(DN 200 to DN 300)	_ 2 _ _	a
	PN 16 EN 1092-1	(DN 150)	_ 3 _ _	b
	ASME B 16.5 150 lb RF		_ A _ _	•
	JIS 10 K		_ N _ _	•
Approvals	None		_ 0 _	•
System Design	Compact with Aluminum Converter Housing	at converter	_ _ _ 1	•
	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 III - Converter model

Converter Model	Without Converter (replacement sensor only)		0	•
	TWM 1000 W	(wall mtg DS cable only)	4	g
	TWM 9000 C		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

**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**

TABLE IV

Lining	Ceramic with cermet electrodes		M ___	•
Electrodes (fixed)	Platinum (DN150-250/ 6" - 10"), Cermet (DN300/ 12")		_ 7 _ _	•
Construction of electrodes	Fixed		_ _ 1 _ _	•
Housing- Flange	Steel	cast steel GS 45 N	_ _ _ 5 _	•
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

(Note 1)

TABLE V

Cable	Separate DS	0 _	•
	Separate BTS	1 _	•
	Without Cable (replacement sensor only)	Y _	y
Cable length	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

TABLE VI

Calibration	Standard	0 _	•
	Standard with 316 / 1.4401 tagplate (12 x 46 mm) 4 lines, 25 characters each line max.	2 _	•
	Standard with 316 / 1.4401 tagplate (67 x 25 mm) 4 lines, 25 characters each line max.	3 _	•
Ring	Ring #1 1.4404 - 316 L + FKM/FPM	_ 6	•

TABLE VII

No Selection	None	0 V _ _	•
Construction	Standard	_ _ 0 _	•
QA / QC	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	Available only with		Not available with	
	Table	Selection	Table	Selection
a	II	K _ _ _ , L _ _ _ , M _ _ _		
b	II	H _ _ _		
d	II	_ _ _ 1		
e	II	_ _ _ A, _ _ _ B, _ _ _ C		
g			II	_ _ _ 1
y	III	0		