

SmartLine Guided Radar Level Meter

RM71 All but 2mm For 2mm probe style see MSG 36-RM-16-03

Model Selection Guide



Higher signal dynamics and sharper pulses improve accuracy
Displays level and interface
Easy navigation using a touch screen without opening the housing (installation wizard)
PACTware and DTMs included as standard
Optional second current output - used for displaying interface measurements etc.
Display in 9 languages including Chinese, Japanese and Russian.

Instructions

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

Table	I	II	III	IV	V	VI
RM71	- 4	-----	-----	-----	-----	-----

KEY NUMBER

RM71

Description

Selection Availability

RM71 ↓

TABLE I

Level Meter Code

4 •

TABLE II

Approvals	None ATEX II G/D 1, 1/2, 2 Ex ia IIC T6 ATEX II G/D 1/2, 2 Ex d ia IIC T6 FM IS Cl. I, II, III Div. 1,2 Gr. A-G Dual Seal FM XP Cl. I, II, III Div. 1,2 Gr. A-G Dual Seal ATEX II 3G Ex nA II T3...T6 NEPSI Ex ia IIC T3...T6 NEPSI Ex d[ia] IIC T3...T6 CSA IS Cl. I, II, III Div. 1,2 Gr. A-G + Dual seal CSA XP Cl. I, II, III Div. 2 Gr. A-G + Dual seal IECEX Zone 0 Ex ia IIC T3...T6, Ex iaD 20 IECEX Zone 0/1 Exd [ia] IIC T3...T6, Ex tD [iaD] A21/20
Material Process Connection and Probe	316L / 1.4404 - 40 bar Hastelloy C-22 / 2.4602 - 40 bar 316L / 1.4404 - 100 bar Hastelloy C-22 / 2.4602 - 100 bar
Probe	Single rod dia. 8 mm(0.31"); length 1 m (3.28') min. to 4 m (13.12') max. Double rod dia. 8 mm (0.31") ; length 1 m (3.28') min. to 4 m (13.12') max. Coax dia. 22 mm (0.87"); length 1 m (3.28') min. to 6 m (19.69') max. Single cable dia. 4 mm (0.16"); length 1m (3.28') min. to 35m(114.83') max. Single cable dia. 8 mm (0.31"); length 1 m (3.28') min. to 35 m (114.83') max. Double cable dia. 4 mm (0.16"); length 1 m (3.28') min. to 8 m (26.25') max. Single cable Ø 4 mm / 0.16 inch FEP coated (1mm) max. 35 m / 114.83 ft Segmented single rod Ø 8mm Segmented coax Ø 22mm
Probe End Type	None (rod & coax version) Counterweight 12 mm (0.47") x 100 mm (3.94"); Single cable 8 mm(0.31") Counterweight 38 mm (1.5") x 245 mm (9.65"); Single cable 8 mm (0.31") Counterweight 20 mm (0.79") x 100 mm (3.94"); Single cable 4 mm (0.16") Counterweight 38 mm (1.5") x 60 mm (2.36"); Double cable 4 mm (0.16") Turnbuckle Chuck Threaded end Crimped end Open end
Feedthrough / Temperature / Sealing	Standard: -40°C (-40°F)...+200°C (392°F) / FKM/FPM Standard: -20°C (-4°F)...+200°C (392°F) / Kalrez 6375 Standard: -50°C (-58°F)...+150°C (302°F), / EPDM

Probe lengths are available in 3.94" (100 mm) increments. Refer to Length table

0	a
2	r
3	p
6	q
7	n
A	r
E	r
F	p
H	q
K	n
M	w
N	p
0	•
1	b
2	•
3	b
0	c
1	d
2	e
3	f
4	g
5	h
7	z
M	c
S	x
0	•
1	•
2	•
3	•
4	•
A	•
B	•
C	•
D	•
E	•
0	•
1	•
4	•

TABLE IV

		Selection	Availability
Housing/Cable Entry/Cable gland	Aluminum / M20 x 1.5 / without	0 _ _ _ _	•
	Aluminum / 1/2" NPT / without	1 _ _ _ _	•
	Aluminum / G1/2" / without	2 _ _ _ _	•
	Aluminum / M20 x 1.5 / Plastic (Non-Ex: black, Ex i: blue)	3 _ _ _ _	•
	Aluminum / M20 x 1.5 / Metal (only for Ex d devices)	4 _ _ _ _	•
	Stainless Steel / M25 x 1.5 / without	A _ _ _ _	•
	Stainless Steel / 1/2" NPT / without	B _ _ _ _	•
	Stainless Steel / M25 x 1.5 / plastic M20 (Non-Ex: Black, Exi blue)	D _ _ _ _	•
Stainless Steel / M25 x 1.5 / metal M20 (only for Ex d devices)	E _ _ _ _	•	
Housing Option	None	_ 0 _ _ _	•
	Weather Protection	_ 2 _ _ _	•
	Remote Version / 2 m (2180mm; 6.56 ft.)	_ 3 _ _ _	s
	Remote Version / 4.5 m (4720 mm; 14.76 ft.)	_ 4 _ _ _	t
	Remote Version / 9.5 m (9800 mm; 31.17 ft.)	_ 5 _ _ _	u
	Remote Version / 14.5 m (14880 mm; 47.57 ft.)	_ 6 _ _ _	v
	Remote Version / 2 m (2180 mm; 6.56 ft.) + Weather Protection	_ A _ _ _	s
	Remote Version / 4.5 m (4720 mm; 14.76 ft.) + Weather Protection	_ B _ _ _	t
	Remote Version / 9.5 m (9800 mm; 31.17 ft.) + Weather Protection	_ C _ _ _	u
Remote Version / 14.5 m (14880 mm; 47.57 ft.) + Weather Protection	_ D _ _ _	v	
HMI (display & keys)	None	_ _ 0 _ _	•
	English	_ _ 1 _ _	•
	German	_ _ 2 _ _	•
	French	_ _ 3 _ _	•
	Italian	_ _ 4 _ _	•
	Spanish	_ _ 5 _ _	•
	Portugese	_ _ 6 _ _	•
	Japanese	_ _ 7 _ _	•
	Chinese (Mandarin)	_ _ 8 _ _	•
	Russian	_ _ A _ _	•
Version	Honeywell	_ _ _ V _	•
Special Option	None	_ _ _ _ 0	•
	ESD Protection 30 KV	_ _ _ _ 1	•
	Metaglas® (dual process sealing system for dangerous products)	_ _ _ _ 2	•

For Available Probe Lengths based on the remote electronics selected, refer to the length table.

TABLE V

Calibration Certificates	None	0 0 0 _ _	•
	Calibration certificate 2 points (Coax min. probe length 410mm / 1.35 ft.)	0 0 1 _ _	•
	Calibration certificate 5 points (Coax min. probe length 1910mm / 6.26 ft.)	0 0 2 _ _	•
Drawing / Tag Number	None	_ _ _ 0 0	•
	Tag No. stainless steel plate (1 line: 12 characters)	_ _ _ 0 2	•

TABLE VI

Probe Length	Ordered in 100mm increments, minimum length 1000mm	_ _ _ 0 0	•
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RESTRICTIONS

Restrictions		Available only with		Not Available with	
Letter	Table	Selection	Table	Selection	
a			IV	4 _____, E _____	
b			II	__3 ____, __4 ____, __5 ____, __7 ____, __M ____, __S ____, __1 ____, __2 ____, __4 ____, __A ____, __B ____,	
c	II	___0_			
d	II	___0_	III	100_, 200_, 400_, 500_, K00_, L00_, 010_, 020_, 040_, 050_, 060_, 0M0_, 0N0_, 0T0_, 0U0_, 005_	
			IV	___1	
e	II	___0_	IV	___1	
f			II	___0_, __1 ____, __2 ____, __4 _	
g			II	___0_, __3 ____, __4 ____, ___4	
			III	100_, 200_, 400_, K00_, 010_, 020_, 040_, 0M0_, 0T0_, __1 ____, __3	
			IV	_5 ____, _6 ____, _C ____, _D __	
h	II	___4 ____, __A ____, ___C _			
			III	100_, 200_, 400_, 500_, K00_, L00_, 010_, 020_, 040_, 050_, 060_, 0M0_, 0N0_, 0T0_, 0U0_, 005_	
			IV	___1	
n			II	__M ____, __S __	
			III	100_, 200_, 300_, 400_, 500_, 600_, 700_, 800_, A00_, B00_, C00_, D00_, E00_, F00_, K00_, L00_, M00_, N00_, P00_, R00_, S00_	
	IV	0 _____, 1 _____, 4 _____	IV	___1	
p			III	___A, ___B, ___D, ___E	
			IV	3 _____, B _____, D _____, ___1	
q			II	__M ____, __S __	
			III	100_, 200_, 300_, 400_, 500_, 600_, 700_, 800_, A00_, B00_, C00_, D00_, E00_, F00_, K00_, L00_, M00_, N00_, P00_, R00_, S00_	
	IV	0 _____, 1 _____, 3 _____,	IV	___1	
r			IV	4 _____, B _____, E _____, ___1	

Additional restrictions can be found on page 4

RESTRICTIONS

Restrictions		Available only with		Not Available with	
Letter	Table	Selection	Table	Selection	
s	II	__ 0 __, __ 1 __, __ M __			
	IV	maximum probe length 4 m			
		or			
	II	__ 2 __, __ S __			
	IV	maximum probe length 6 m			
		or			
	II	__ 5 __			
	IV	maximum probe length 8 m			
		or			
t	II	__ 3 __, __ 4 __, __ 7 __			
	IV	maximum probe length 30 m			
	II	__ 0 __, __ 1 __, __ M __			
	IV	maximum probe length 4 m			
		or			
	II	__ 2 __, __ S __			
	IV	maximum probe length 6 m			
		or			
	II	__ 5 __			
IV	maximum probe length 8 m				
	or				
u	II	__ 3 __, __ 4 __, __ 7 __			
	IV	maximum probe length 25 m			
	II	__ 0 __, __ 1 __, __ M __			
	IV	maximum probe length 4 m			
		or			
	II	__ 2 __, __ S __			
	IV	maximum probe length 6 m			
		or			
	II	__ 5 __			
IV	maximum probe length 8 m				
	or				
v	II	__ 3 __, __ 4 __, __ 7 __			
	IV	maximum probe length 15 m			
	II	__ 0 __, __ 1 __, __ M __			
	IV	maximum probe length 4 m			
		or			
	II	__ 2 __, __ S __			
	IV	maximum probe length 5 m			
		or			
	II	__ 5 __			
IV	maximum probe length 5 m				
	or				
w	II	__ 3 __, __ 4 __, __ 7 __			
	IV	maximum probe length 5 m			
w			IV	4 __, B __, E __, __ 1	
x	II	__ 0 __	III	1 0 0 __, 4 0 0 __, K 0 0 __, 0 1 0 __, 0 4 0 __, 0 M 0 __, 0 T 0 __,	
z	II	__ 3 __			