

## SmartLine Guided Radar Level Meter

## Model Selection Guide

RM71 2 mm Cable For all other probe styles see MSG 36-RM-16-02



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	Description
RM71	

Selection	Availability
RM71	↓

TABLE I	
Level Meter Code	4 •

TABLE II	
	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
<b>Material Process Connection and Probe</b>	316L / 1.4404 - 40 bar Hastelloy C-22 / 2.4602 - 40 bar 316L / 1.4404 - 100 bar Hastelloy C-22 / 2.4602 - 100 bar 316L / 1.4404 - 300 bar Hastelloy C-22 / 2.4602 - 300 bar
<b>Probe</b>	Single cable dia. 2 mm (.078"); length 1 m (3.28') min. 35 m (114.83') max. (LIQ Only)
<b>Probe End Type</b>	Counterweight 14 mm (0.55") x 100 mm (3.94"); Single cable 2 mm (0.078")
<b>Feedthrough/Temperature/ Sealing</b>	Standard: -40°C (-40°F)...+150°C (302°F), / FKM/FPM Standard: -20°C (-4°F)...+150°C (302°F), / Kalrez 6375 Standard: -50°C (-58°F)...+150°C (302°F), / EPDM Standard: -40°C (-40°F)...+300°C (572°F), (HT) / FKM/FPM Standard: -20°C (-4°F)...+300°C (572°F), (HT) / Kalrez 6375 Standard: -50°C (-58°F)...+250°C (482°F), (HT) / EPDM

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	•
- 2	•
- 3	•
- 4	•
- 5	•
- 6	•
- 5	•
- 2	•
- 3	•
- 4	•
- 5	•
- 6	•
- 7	•

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

TABLE III Description

Process Connection - EN	G 1/2" A ISO228 (Single cable 2 mm)	H 0 0 _ •
	DN 25 PN 40 Form B1 EN1092	4 0 0 _ •
	DN 40 PN 40 Form B1 EN1092	5 0 0 _ •
	DN 50 PN 40 Form B1 EN1092	6 0 0 _ •
	DN 80 PN 40 Form B1 EN1092	7 0 0 _ •
	DN 100 PN 16 Form B1 EN1092	8 0 0 _ •
	DN 100 PN 40 Form B1 EN1092	A 0 0 _ •
	DN 150 PN 16 Form B1 EN1092	B 0 0 _ •
	DN 150 PN 40 Form B1 EN1092	C 0 0 _ •
	DN 50 PN 63 Form B1 EN1092	D 0 0 _ •
	DN 80 PN 63 Form B1 EN1092	E 0 0 _ •
	DN 100 PN 63 Form B1 EN1092	F 0 0 _ •
	DN25 PN63/PN100 Form B1 EN1092	K 0 0 _ •
	DN40 PN63/PN100 Form B1 EN1092	L 0 0 _ •
	DN50 PN100 Form B1 EN1092	M 0 0 _ •
	DN80 PN100 Form B1 EN1092	N 0 0 _ •
	DN100 PN100 Form B1 EN1092	P 0 0 _ •
DN150 PN63 Form B1 EN1092	R 0 0 _ •	
DN150 PN100 Form B1 EN1092	S 0 0 _ •	
Process Connection - ASME	1/2" NPT (Single cable 2 mm)	0 H 0 _ •
	1" 150 lb RF ASME B16.5	0 4 0 _ •
	1 1/2" 150 lb RF ASME B16.5	0 5 0 _ •
	1 1/2" 300 lb RF ASME B16.5	0 6 0 _ •
	2" 150 lb RF ASME B16.5	0 7 0 _ •
	2" 300 lb RF ASME B16.5	0 8 0 _ •
	3" 150 lb RF ASME B16.5	0 A 0 _ •
	3" 300 lb RF ASME B16.5	0 B 0 _ •
	4" 150 lb RF ASME B16.5	0 C 0 _ •
	4" 300 lb RF ASME B16.5	0 D 0 _ •
	6" 150 lb RF ASME B16.5	0 E 0 _ •
	8" 150 lb RF ASME B16.5	0 F 0 _ •
	6" 300 LBS RF ASME B16.5	0 G 0 _ •
	1" 600LBS RF ASME B16.5	0 M 0 _ •
	1 1/2" 600LBS RF ASME B16.5	0 N 0 _ •
	2" 600LBS RF ASME B16.5	0 P 0 _ •
	3" 600LBS RF ASME B16.5	0 R 0 _ •
	4" 600LBS RF ASME B16.5	0 S 0 _ •
	1" 900LBS/1500LBS RF ASME B16.5	0 T 0 _ •
	1 1/2" 900LBS/1500LBS RF ASME B16.5	0 U 0 _ •
	2" 900LBS/1500LBS RF ASME B16.5	0 V 0 _ •
	3" 900LBS RF ASME B16.5	0 W 0 _ •
	4" 900LBS RF ASME B16.5	0 X 0 _ •
1" 2500LBS RF ASME B16.5	0 Y 0 _ •	
Process Connection Other	10K 40A RF JIS B2220	0 0 5 _ •
	10K 50A RF JIS B2220	0 0 6 _ •
	10K 80A RF JIS B2220	0 0 7 _ •
	10K 100A RF JIS B2220	0 0 8 _ •
Output	Output: 4...20mA (Hart)	--- 0 •
	1 Output: 4...20mA (Hart) + Interface	--- 1 •
	2 Outputs 4...20mA (Hart) + 4...20mA	--- 2 •
	2 Outputs 4...20mA (Hart) + 4...20mA + Interface	--- 3 •

TABLE IV

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

TABLE V

<b>Calibration Certificates</b>	None Calibration certificate 2 points (Coax min. probe length 410mm / 1.35 ft.) Calibration certificate 5 points (Coax min. probe length 1910mm / 6.26 ft.)	0 0 0 _ _ • 0 0 1 _ _ • 0 0 2 _ _ •
<b>Drawing / Tag Number</b>	None NACE Design Tag No. stainless steel plate (1 line: 12 characters)	_ _ _ 0 0 • _ _ _ 3 0 • _ _ _ 0 2 •

TABLE VI

<b>Probe Length</b>	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_____	
n			III	100_, 200_, 300_, 400_, 500_, 600_, 700_, 800_, A00_, B00_, C00_, D00_, E00_, F00_, H00_, K00_, L00_, M00_, N00_, P00_, R00_, S00_	
	IV	0_____, 1_____, 4_____	IV	_____1	
p					
			IV	3_____, B_____, D_____, _____1	
q	IV	0_____, 1_____, 3_____	IV	_____1	
			III	100_, 200_, 300_, 400_, 500_, 600_, 700_, 800_, A00_, B00_, C00_, D00_, E00_, F00_, H00_, K00_, L00_, M00_, N00_, P00_, R00_, S00_	
r			IV	4_____, B_____, E_____, _____1	
s	II	__6__			
	IV	maximum probe length 30 m			
t	II	__6__			
	IV	maximum probe length 25 m			
u	II	__6__			
	IV	maximum probe length 15 m			
v	II	__6__			
	IV	maximum probe length 5 m			
w					
			IV	4_____, B_____, E_____, _____1	