

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	Selection	Availability
RM71		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	0 ---- a 2 ---- r 3 ---- p 6 ---- q 7 ---- n A ---- r E ---- r F ---- p H ---- q K ---- n M ---- w N ---- p
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 316L / 1.4404 - 300 bar Hastelloy C-22 / 2.4602 - 300 bar	- 0 --- • - 1 --- • - 2 --- • - 3 --- • - 4 --- • - 5 --- •
Probe	Single cable dia. 2 mm (.078"); length 1 m (3.28') min. 35 m (114.83') max. (LIQ Only)	- 6 --- •
Probe End Type	Counterweight 14 mm (0.55") x 100 mm (3.94"); Single cable 2 mm (0.078")	- 5 --- •
Feedthrough/Temperature/ Sealing	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	--- 2 --- • --- 3 --- • --- 4 --- • --- 5 --- • --- 6 --- • --- 7 --- •

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

TABLE III

Description

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

TABLE IV

Housing/Cable Entry/Cable gland	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 _ _ _ _ •
Housing Option	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
HMI (display & keys)	None English German French Italian Spanish Portugese Japanese Chinese (Mandarin) Russian	_ _ 0 _ _ • _ _ 1 _ _ • _ _ 2 _ _ • _ _ 3 _ _ • _ _ 4 _ _ • _ _ 5 _ _ • _ _ 6 _ _ • _ _ 7 _ _ • _ _ 8 _ _ • _ _ A _ _ •
Version	Honeywell	_ _ _ V _ •
Special Option	None Metaglas® (dual process sealing system for dangerous products)	_ _ _ _ 0 • _ _ _ _ 2 •

TABLE V

Calibration Certificates	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 _ _ •
Drawing / Tag Number	None NACE Design Tag No. stainless steel plate (1 line: 12 characters)	_ _ _ 0 0 • _ _ _ 3 0 • _ _ _ 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_____	
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	