

## SmartLine

### RMA801 SmartLine Remote DE or Analog Indicator Specification

34-ST-03-148, February 2022



#### Introduction

The Honeywell RMA801 is a DE or analog remote indicator suitable for use with any DE transmitter or a transmitter operating in analog, 4-20 mA mode. The RMA801 is part to the RMA 800 family and delivers the ability to locate a remote indicator away from a SmartLine transmitter. In this specific instance, the RMA801 is the remote display offering that supports Honeywell's DE protocol and thus it connects to the SmartLine family of transmitters when using DE protocol. Besides supporting DE protocol, the RMA801 is also capable of operating in analog only mode allowing it to connect to any transmitter with a 4-20 mA output including HART protocol transmitters.

#### Best in Class Features:

- RMA auto-configuration when connected to DE protocol transmitters
- Modular design hardware
- Dual compartment housing separating sensitive electronics from termination wiring
- Standard and custom measurement units available
- Integrated two configuration buttons
- Simple, easy to use interface
- Remote indicator diagnostic displays
- Reverse wiring polarity protection
- Functions as a second, remotely-located display for ease of view

#### Integral Keypad

The RMA801 features a built-in 2-button keypad on display, permitting display set-up and operation, including:

- RMA configuration for LRV, URV and engineering unit
- RMA calibration
- Display appearance (contrast setting)



Figure 1–RMA801 Remote Indicator

## Display Characteristics

The RMA801 Remote Indicator features the following:

- 360° rotation in 90° Increments
- 2 lines, 8 characters
- Diagnostic messaging
- Custom units of measurement
- Standard units of measurement:

<b>Temperature</b>	°C, °F, °R, K, mV, Ohm
<b>Pressure</b>	inH2O@39°F, mH2O@4°C, cmH2O@4°C, Torr, mmH2O@68°F, ftH2O@68°F, inH2O@68°F, inH2O@60°F, atm, Pa, kPa, MPa, gf/cm2, kgf/cm2, psi, mbar, bar, inHg@0°C, mmHg@0°C, mmH2O@4°C.
<b>Flow</b>	ft3/sec, gal/min, gal/hr, liter/min, liter/hr, m3/sec, m3/hr, Pounds per sec(lbm/sec), Pounds per min (lbm/min), Pounds per hr(lbm/hr), kg/sec, kg/hr, Standard Cubic Feet per min (SFt3/m), Standard Cubic Feet per hr (SFt3/h), Standard Cubic Feet per Day (SFt3/d), Metric Standard Cubic Feet per Hour(MSCFH), Normal Cubic meter per hr(NM3/h), Million Standard Cubic Feet per Day (MMSCFD), Million Standard Cubic Feet per Hour (MMSCFH)
<b>Level</b>	ft, in, m, cm, mm, %

## Display Screens & Diagnostics

Similar to all other SmartLine products, the display rotation and contrast settings are user configurable.

The RMA801 remote indicator can rotate the display in 90 deg and cover 360 deg manually

### Diagnostic messages



#### **BAD-Tx**

Transmitter critical diagnostic condition present



#### **BAD-RMA**

RMA diagnostics present



#### **RMA DG**

RMA Diagnostics

**Figure 2: Standard Display screens**

## Specifications

Operating Conditions						
Parameter	Reference Condition		Operative Limits		Transportation and Storage	
	°C	°F	°C	°F	°C	°F
Ambient Temperature	25±1	77±2	-40 to 70*	-40 to 158	-30 to 80	-22 to 175
Humidity (%RH)	10 to 55		0 to 100		0 to 100	

**Note:** LCD display operating temperature is –20 to 70°C. At temperatures beyond this operating limit, display may not be readable but loop will remain intact.

Physical/Functional Specifications	
Parameter	Description
Input Signal	4-20 mA DC
Max Voltage drop	2.3V @ 21.5mA
Drop under Failure conditions	5.6V
Min loop operating current	3.6mA
Vibration:	IEC 60770-1 field or pipeline, vibration (10-2000 Hz: 0.21mm displacement / 3g max acceleration)
Electromagnetic Compatibility	IEC 61326-3-1
Electronic Housing	Pure Polyester Powder Coated Low Copper (<0.4%) Aluminum. Meets NEMA 4X, IP66, IP67 and NEMA 7 (explosion proof). All stainless steel housing is optional. Cover o-ring material: Silicone
Wiring	Accepts up to 16 AWG (1.5 mm diameter).
Mounting Bracket	Carbon Steel (zinc-chromate plated) or 316 Stainless Steel. Suitable for wall or 2" (50mm) vertical or horizontal pipe mounting.
Electrical Connections	½"-14 NPT or M20
Dimensions	See <a href="#">Figure 3</a> and <a href="#">Figure 5</a>
Net Weight	2.5 lbs (1,1 kg) with aluminum housing

Performance	
Parameter	Description
<b>Accuracy:</b> <ul style="list-style-type: none"> <li>• Analog 4-20 mA Mode</li> <li>• Temperature Effect</li> <li>• DE</li> </ul>	+/- 0.1% of Span under standard conditions +/- 0.01 % of Span under standard conditions Same as transmitter*
<b>Display</b>	Digital Readout: 7 digits,
<b>Display Resolution</b>	0.01 unit for reading range (-999 to 999) 0.1 unit for reading range (-9999 to -1000) or (1000 unit to 9999). 1 unit for reading range (-99999 to -10000) or (10000 to 99999). 10 units for reading range (-999999 to -100000) or (100000 to 999999).

\*Reproduces the transmitter signal exactly to within its resolution

### Mounting & Dimensional Drawings

Reference Dimensions:  $\frac{\text{millimeters}}{\text{inches}}$

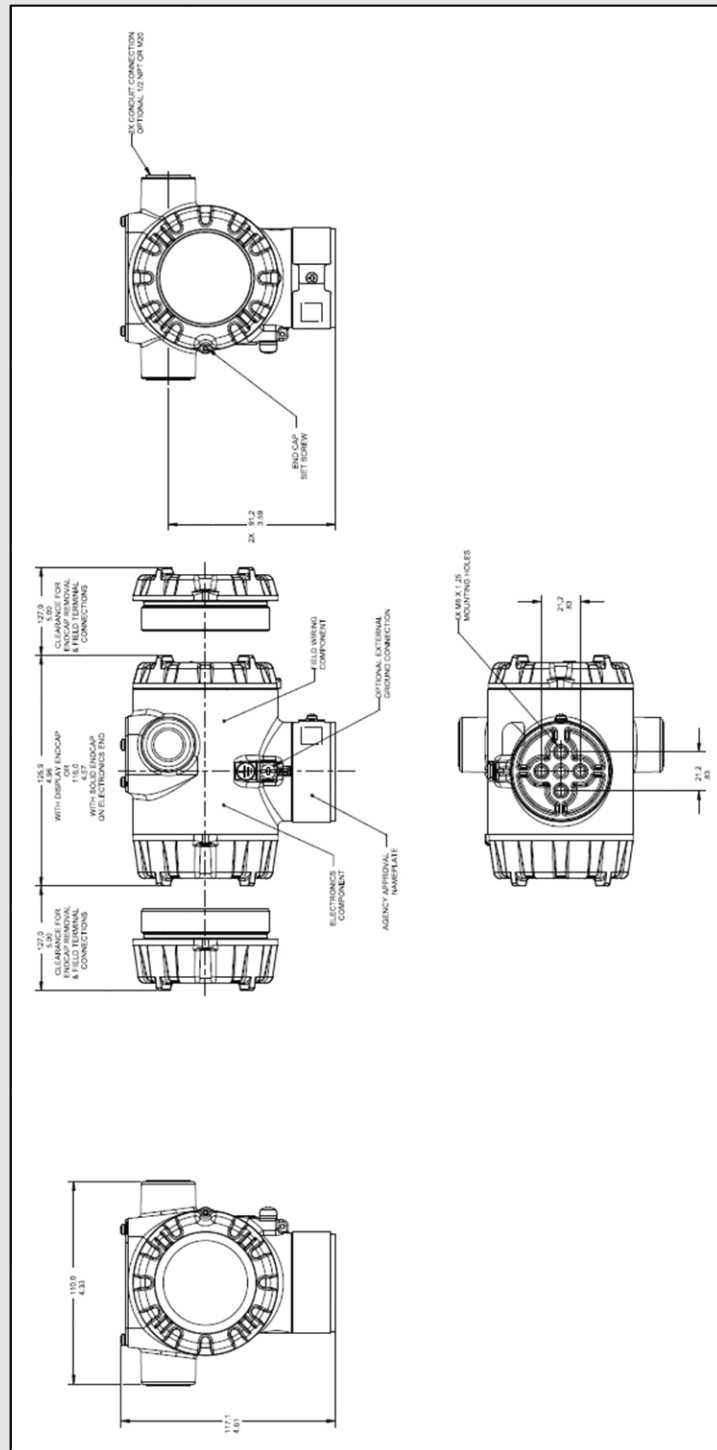
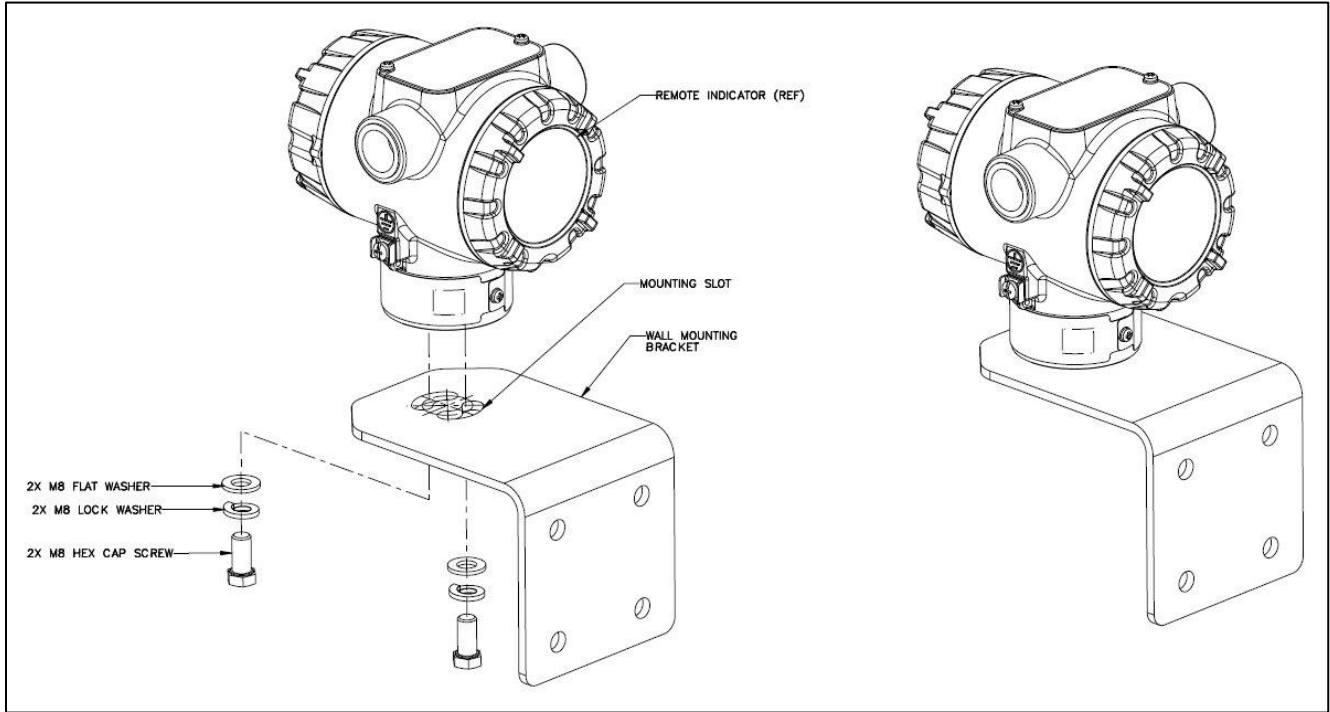


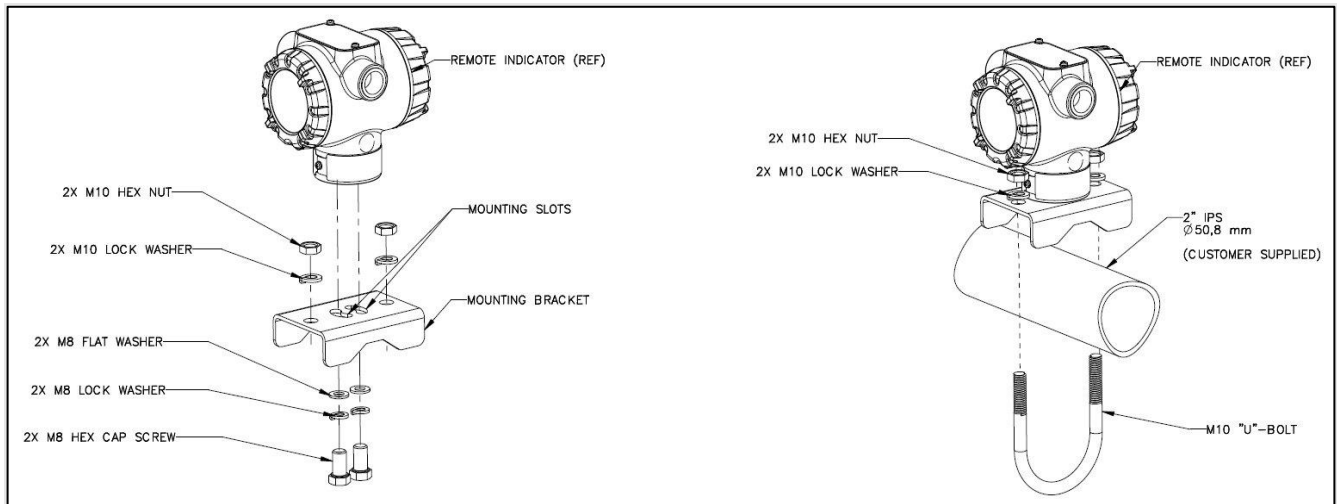
Figure 3 – RMA Dimensions

**Mounting & Dimensional Drawings**

**TRANSMITTER ENCLOSURE CAN BE ROTATED A TOTAL OF 90° FROM THE STANDARD MOUNTING POSITION**



**Figure 4 - Wall Mounting**



**Figure 5 – Pipe Mount, Horizontal & Vertical**

## Mounting & Dimensional Drawings

TRANSMITTER ENCLOSURE CAN BE ROTATED A TOTAL OF 90° FROM THE STANDARD MOUNTING POSITION

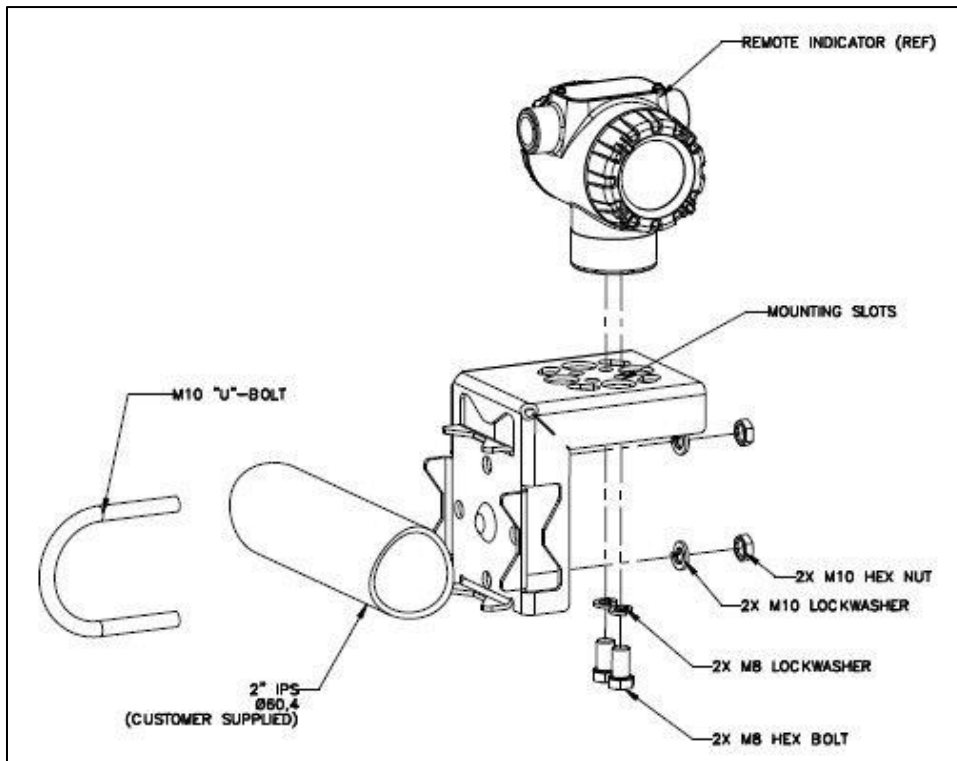


Figure 6: Pipe Mount - Horizontal Mounting Bracket

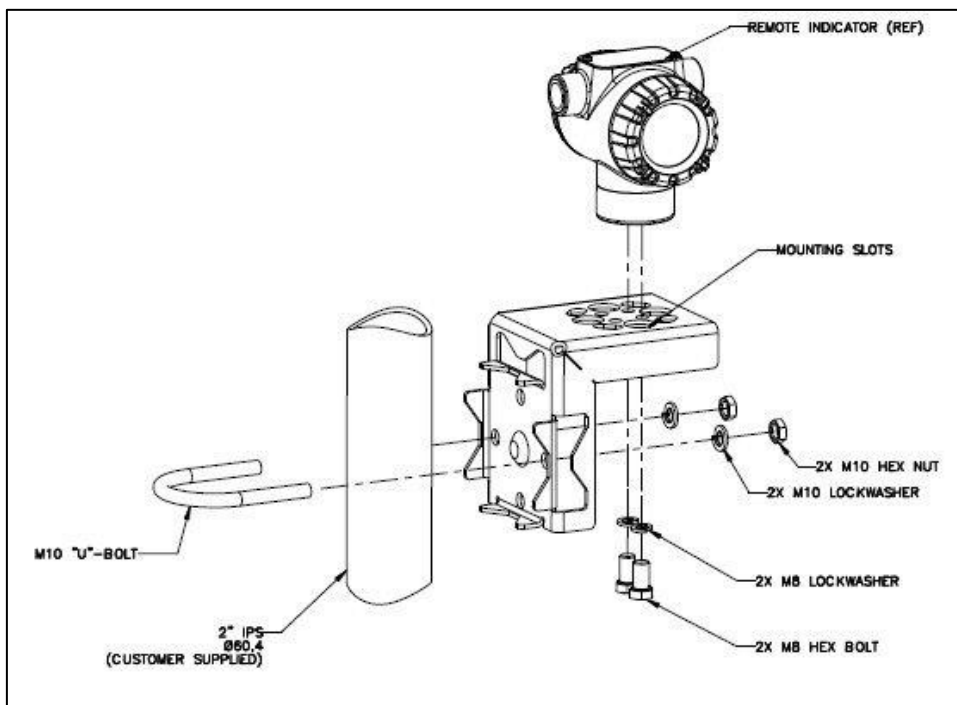





Figure 7: Pipe Mount - Vertical Mounting Bracket

## Approval Certifications:

MSG CODE	AGENCY	TYPE OF PROTECTION	Electrical Parameters	Ambient Temperature
C	ATEX	<b>Flame-proof and Dust:</b>  II 2 G Ex db IIC T6..T5 Gb II 2 D Ex tb IIIC T 95°C Db	Note 1	T6: -20°C to 65°C T95°C, T5: -20°C to 85°C
		<b>Intrinsically Safe:</b>  II 1 G Ex ia IIC T4 Ga II 3 G Ex ic IIC T4 Gc	Note 2	-20°C to 70°C
		<b>Non-Incendive</b>  II 3 G Ex ec IIC T4 Gc	Note 1	-20°C to 85°C
		<b>Enclosure:</b> Type IP66/ IP67	ALL	ALL
		<b>STANDARDS:</b> EN 60079-0: 2012+A11: 2013; EN 60079-1: 2014; EN 60079-11: 2012; EN 60079-31: 2014; EN 60079-7: 2015;		
D	IECEx	<b>Flame-proof:</b> Ex db IIC T6..T5 Gb Ex tb IIIC T 95°C Db	Note 1	T6: -20°C to 65°C T95°C, T5: -20°C to 85°C
		<b>Intrinsically Safe:</b> Ex ia IIC T4 Ga Ex ic IIC T4 Gc	Note 2	-20°C to 70°C
		<b>Non-Incendive</b> Ex ec IIC T4 Gc	Note 1	-20°C to 70°C
		<b>Enclosure:</b> IP66/ IP67	ALL	ALL
		<b>STANDARDS:</b> IEC 60079-0: 2011; IEC 60079-1: 2014; IEC 60079-11: 2011; IEC 60079-7: 2015; IEC 60079-31: 2014		
E	SAEx	<b>Flame-proof:</b> Ex db IIC T6..T5 Gb Ex tb IIIC T 95°C Db	Note 1	T6: -20°C to 65°C T95°C, T5: -20°C to 85°C
		<b>Intrinsically Safe:</b> Ex ia IIC T4 Ga Ex ic IIC T4 Gc	Note 2	-20°C to 70°C
		<b>Non-Incendive</b> Ex ec IIC T4 Gc	Note 1	--20°C to 85°C
		<b>Enclosure:</b> IP66/ IP67	ALL	ALL
		<b>STANDARDS:</b> IEC 60079-0: 2011; IEC 60079-1: 2014; IEC 60079-11: 2011; IEC 60079-7: 2006; IEC 60079-31: 2013		
F	INMETRO	<b>Flame-proof:</b> Ex db IIC T6..T5 Gb Ex tb IIIC T 95°C Db	Note 1	T6: -20°C to 65°C T95°C, T5: -20°C to 85°C
		<b>Intrinsically Safe:</b> Ex ia IIC T4 Ga Ex ic IIC T4 Gc	Note 2	-20°C to 70°C
		<b>Non-Incendive</b> Ex ec IIC T4 Gc	Note 1	--20°C to 85°C
		<b>Enclosure:</b> IP66/ IP67	ALL	ALL
		<b>STANDARDS:</b> ABNT NBR IEC 60079-0: 2013; ABNT NBR IEC 60079-1: 2016; ABNT NBR IEC 60079-11: 2013; ABNT NBR IEC 60079-7: 2018; ABNT NBR IEC 60079-31: 2014		

MSG CODE	AGENCY	TYPE OF PROTECTION	Electrical Parameters	Ambient Temperature
G	NEPSI	<b>Flame-proof:</b> Ex d IIC T6/T5 Gb Ex tD A21 IP66/67 T95°C	Note 1	T6: -20°C to 65°C T95°C, T5: -20°C to 85°C
		<b>Intrinsically Safe:</b> Ex ia IIC T4 Ga Ex ic IIC T4 Gc	Note 2	-20°C to 70°C
		<b>Non-Incendive</b> Ex nA IIC T4 Gc	Note 1	--20°C to 85°C
		<b>Enclosure:</b> IP66/ IP67	ALL	ALL
		<b>STANDARDS:</b> GB 3836.1-2010; GB 3836.2-2010; GB 3836.4-2014; GB 3836.19-2010; GB 3836.20-2010; GB 12476.1-2013; GB 12476.5-2013		
P	CCoE/ PESO	<b>Flame-proof:</b> Ex db IIC T6..T5 Gb	Note 1	T6: -20°C to 65°C T5: -20°C to 85°C
		<b>Intrinsically Safe:</b> Ex ia IIC T4 Ga	Note 2	-20°C to 70°C
		<b>Enclosure:</b> IP66/ IP67	ALL	ALL
		<b>STANDARDS:</b> IEC 60079-0: 2011; IEC 60079-1: 2014; IEC 60079-11: 2011; IEC 60079-7: 2006; IEC 60079-31: 2013		
K	cCSAus	<b>Explosion proof:</b> Class I, Division 1, Groups A, B, C, D;T6..T4	Note 1	T6: -50°C to +65°C T4, T5: -50 °C to 85°C
		<b>Dust Ignition Proof:</b> Class II, III, Division 1, Groups E, F, G; T4 Class I Zone 1 Ex db IIC T4 Gb Ex db IIC T4 Gb Zone 21 Ex tb IIIC T 95°C Db Ex tb IIIC T 95°C Db		
		<b>Intrinsically Safe:</b> CSA 14.2689056 Class I, II, III, Division 1, Groups A, B, C, D, E, F, G; T4 Ex ia IIC T4 Ga	Note 2	-50°C to 70°C
		<b>Non-Incendive</b> Class I, Division 2, Groups A, B, C, D; T4 Class I Zone 2 Ex nA IIC T4 Gc Ex nA IIC T4 Gc	Note 1	-50°C to 85°C
		<b>Enclosure:</b> Type 4X/ IP66/ IP67	ALL	ALL
		<b>Standards:</b> CSA C22.2 No. 0: 2015; CSA C22.2 No. 30: 2016; CSA C22.2 No. 94-M91; CSA C22.2 No. 25: 2017; CSA C22.2 No. 61010-1: 2017; CSA-C22.2No.157: 2016; C22.2 No. 213: 2017; C22.2 No. CSA 60079-0:2015; C22.2 No. 60079-1: 2016; C22.2 No. 60079-11: 2014; C22.2 No. 60079-15: 2016; C22.2 No. 60079-31: 2015; ANSI/ ISA12.12.01-2017; ANSI/ ISA 61010-1: 2016; ANSI/ UL 60079-0: 2013; ANSI/ UL 60079-1: 2015; ANSI/ UL 60079-11: 2014; ANSI/ UL 60079-15: 2013; ANSI/ UL 60079-31: 2015 ; FM 3600: 2011; FM 3615: 2006; FM Class 3616: 2011; ANSI/ UL 913: 2015; UL 916: 2015; ANSI/ UL 12.27.01: 2017; ANSI/UL 50E: 2015		

### Notes

#### 1. Operating Parameters:

Input : 4-20 mA ; 42VDC max, 30mA.

#### 2. Intrinsically Safe Entity Parameters

For details see Control Drawing, 50089981.



**Model Selection Guide**

The Model Selection Guide is subject to change and is inserted into the specification as guidance only.


<h2>Model RMA800 Remote Indicator</h2>																																																																																																	
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<b>Instructions:</b> Make selections from all Tables Key through VI using column below the proper arrow. Asterisk indicates availability. Letter (a) refer to restrictions highlighted in the restrictions table. Tables delimited with dashes. <b>List Price:</b> Price equals the sum of prices for all selections made.		List Price equals the sum of prices for all selections.																																																																																															
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TABLE IV		ACCESSORY SELECTIONS		RMA803	RMA801
a. Mounting Bracket	Bracket Type		Material		
		None	None	None	0 ___
	Flat Pipe Mounting Bracket	Carbon Steel	Carbon Steel	1 ___	* *
	Flat Pipe Mounting Bracket	316 Stainless Steel	316 Stainless Steel	2 ___	* *
	Wall Mounting Bracket	Carbon Steel	Carbon Steel	3 ___	* *
	Wall Mounting Bracket	316 Stainless Steel	316 Stainless Steel	4 ___	* *
	Marine Approved Mounting Bracket	316 Stainless Steel	316 Stainless Steel	5 ___	* *
	Angle Pipe Mounting Bracket	Carbon Steel	Carbon Steel	6 ___	* *
	Angle Pipe Mounting Bracket	316 Stainless Steel	316 Stainless Steel	7 ___	* *
b. Customer Tag	Customer Tag Type				
	No customer tag			_ 0 _	* *
	One Wired Stainless Steel Tag (Up to 4 lines 26 char/line)			_ 1 _	* *
Two Wired Stainless Steel Tag (Up to 4 lines 26 char/line)			_ 2 _	* *	
c. Unassembled Conduit Plugs & Adapters	Unassembled Conduit Plugs & Adapters				
	No Conduit Plugs or Adapters Required			_ _ A0	* *
	1/2 NPT Male to 3/4 NPT Female 316 SS Certified Conduit Adapter			_ _ A2	n n
	1/2 NPT 316 SS Certified Conduit Plug			_ _ A6	n n
M20 316 SS Certified Conduit Plug			_ _ A7	m m	

TABLE V		OTHER Certifications & Options:(String in sequence comma delimited (XX, XX, XX,...))			
a. Additional Options	None - No additional options required		00	* *	
	Marine (LR Only)		MT		d
	Certificate of Conformance		F3	* *	
	Certificate of Origin		F5	* *	
	Extended Warranty Additional 1 year		01	* *	b
	Extended Warranty Additional 2 years		02	* *	
	Extended Warranty Additional 3 years		03	* *	
	Extended Warranty Additional 4 years		04	* *	
Extended Warranty Additional 15 years		15	* *		

TABLE VI		MANUFACTURING SPECIALS			
Factory	Factory Identification		0000	* *	

**MODEL RESTRICTIONS**

Restriction Letter	Available Only with		Not Available with	
	Table	Selection(s)	Table	Selection(s)
d	Ila	C, D, G, H ___	IVa	1,2,3,4,6,7 ___
m	Ila	B, D, F, H ___		
n	Ila	A, C, E, G ___		
b	Select only one option from this group			

**PRODUCT MANUALS**

Description	Part Number
RMA801 Remote Meter Assembly HART / DE manual - English	34-ST-25-62
RMA803 Remote Meter Assembly Foundation Fieldbus manual - English	34-ST-25-51

## Sales and Service

For application assistance, current specifications, pricing, or name of the nearest Authorized Distributor, contact one of the offices below.

### ASIA PACIFIC

Honeywell Process Solutions,  
(TAC) [hfs-tac-support@honeywell.com](mailto:hfs-tac-support@honeywell.com)

#### Australia

Honeywell Limited  
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FAX: +(61) 7-3840 6481  
Toll Free 1300-36-39-36  
Toll Free Fax:  
1300-36-04-70

#### China – PRC - Shanghai

Honeywell China Inc.  
Phone: (86-21) 5257-4568  
Fax: (86-21) 6237-2826

#### Singapore

Honeywell Pte Ltd.  
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Fax: +(65) 6445-3033

#### South Korea

Honeywell Korea Co Ltd  
Phone: +(822) 799 6114  
Fax: +(822) 792 9015

### EMEA

Honeywell Process Solutions,  
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+44 1202645583

Email: (Sales)

[FP-Sales-Apps@Honeywell.com](mailto:FP-Sales-Apps@Honeywell.com)

or

(TAC)

[hfs-tac-support@honeywell.com](mailto:hfs-tac-support@honeywell.com)

### Web

Knowledge Base search  
engine <http://bit.ly/2N5Vldi>

### AMERICA'S

Honeywell Process Solutions,  
Phone: (TAC) 1-800-423-9883 or  
215/641-3610  
(Sales) 1-800-343-0228

Email: (Sales)

[FP-Sales-Apps@Honeywell.com](mailto:FP-Sales-Apps@Honeywell.com)

or

(TAC)

[hfs-tac-support@honeywell.com](mailto:hfs-tac-support@honeywell.com)

### Web

Knowledge Base search  
engine <http://bit.ly/2N5Vldi>

*Specifications are subject to change without notice.*

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### For more information

To learn more about SmartLine devices,  
visit <https://process.honeywell.com/>

Or contact your Honeywell Account Manager

### Process Solutions

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34-ST-03-148

February 2022

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