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ИНДИКАТОРЫ ВЫНОСНЫЕ

Технические характеристики на RMA805



Installation and Startup

Installation Site Evaluation

Evaluate the site selected for the RMA805 Enraf FlexLine Remote Indicator installation with respect to the process system design specifications and Honeywell's published performance characteristics for your particular model. Some parameters that you may want to include in your site evaluation are:

- Environmental Conditions:
 - Ambient Temperature
 - Relative Humidity
- Potential Noise Sources:
 - Radio Frequency Interference (RFI)
 - Electromagnetic Interference (EMI)
- Vibration Sources
 - Motorized System Devices (e.g., pumps)

Display Installation Precautions

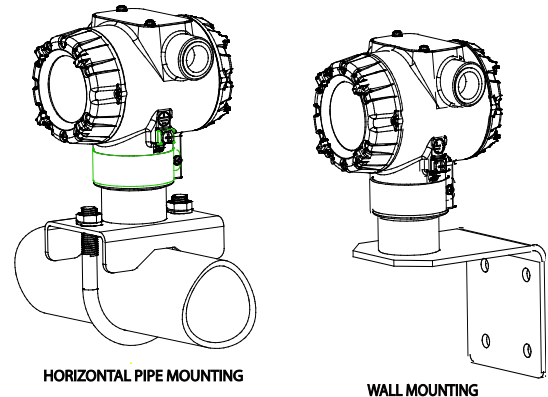
Temperature extremes can affect display quality. The display can go blank if the temperature is below -20°C or above +70°C; however, this is only a temporary condition. The display will again be readable when temperatures return to within operable limits.

Mounting Remote Indicator

Summary

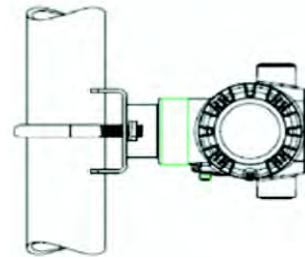
Remote Indicator models can be attached to a two-inch (50 millimeter) vertical or horizontal pipe using Honeywell's optional pipe mounting bracket. Honeywell's optional wall mounting bracket is also shown below.

Figure 1 shows typical bracket-mounted installations.



HORIZONTAL PIPE MOUNTING

WALL MOUNTING



VERTICAL PIPE MOUNTING

Figure 1: Typical Bracket Mounted Installations

Mounting Dimensions

Refer to Honeywell drawing number 50094836 for detailed electronic housing dimensions. Refer to Honeywell drawing numbers 50095917 for detailed pipe mounting dimensions and 50095918 for detailed wall mounting dimensions. Abbreviated overall dimensions are also shown on the Specification Sheets for the Remote Indicator models. This section assumes that the mounting dimensions have already been taken into account and the mounting area can accommodate the Remote Indicator.

Bracket Mounting

If you are using an optional bracket, start with Step 1.

1. Align the two mounting holes in the Remote Indicator with the two slots in the mounting bracket and assemble the (2) M8 hex cap screws, (2) lockwashers and (2) flat washers provided. Rotate Remote Indicator assembly to the desired position and torque the M8 hex cap screws to 27,0 Nm/20,0 Lb-ft maximum.

Pipe Mount Option: Refer to Figure 2

2. Position the bracket on a 2-inch (50.8 mm) horizontal or vertical pipe, and install a "U" bolt around the pipe and through the holes in the bracket. Secure the bracket with the nuts, flat washers and lock washers provided.
3. Wall Mount Option: Position the bracket on the mounting surface at the desired location and secure the bracket to the mounting surface using the appropriate hardware (Wall mounting hardware requirements to be determined and supplied by the end user)

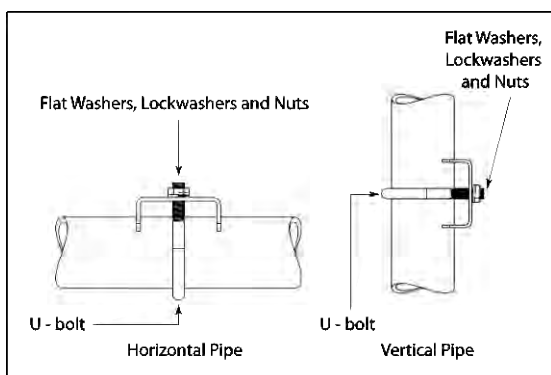


Figure 2: Pipe Mounting Bracket Secured to a Horizontal or Vertical Pipe

Wiring the RMA805 Enraf FlexLine Remote Indicator

Overview

The Remote Indicator must be connected to the local HART compatible bus of the Enraf Smartradar FlexLine or the Enraf SmartServo 954.

The Remote Indicator has 3 terminals. Following table provides the connection details:

Terminal	Description
1	Loop +
2	Loop -
3	Not used

The screw terminals are suitable for wirings up to 16AWG (1.3 mm²) Shielded, twisted-pair cable such as Belden 9318 or equivalent must be used for all wiring.

The cable shield must be connected at only one end of the cable. Connect it to the FlexLine Gauge side and **leave the shield insulated at the Remote Indicator side.**

Note: If solid core wire is used strip insulation 1/4 in (6 mm). Once inserted under the square washer the stripped portion should be contained under the square washer. If multi-stranded wire is used, a ferrule is to be used and the stripped wire should be in the insulated portion of the ferrule. The ferrule can be also be used on the solid core wire.

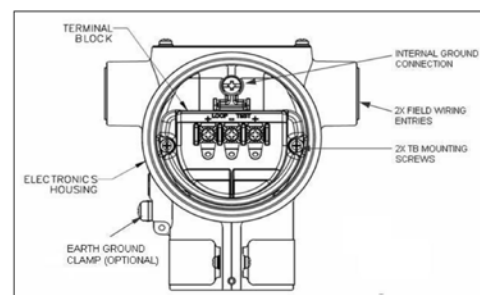


Figure 3: Two Position FF Terminal Block

Electrical Wiring

The Remote Indicator shall be connected to the Loop + and Loop - terminals of the FlexLine Gauge. Typically, these are terminals 24 and 25. See the installation manual of the FlexLine Gauge for more information.

It is possible that other devices such as a VITO temperature convertor and a pressure transmitter must be connected to the same loop. **All devices must be wired in parallel. Ensure all devices are set to 4 mA digital multi-drop mode before connecting to the FlexLine Gauge.** See Figure 4 for a connection diagram.

Jumper Settings

On the Remote Indicator there is a failsafe jumper and a write protect jumper behind the display on the Communication Module. The top jumper is the failsafe jumper. It is highly recommended to put the failsafe jumper to DOWN (Downscale). The bottom jumper sets the write protect.


	ATTENTION: Electrostatic Discharge (ESD) hazards. Observe precautions for handling electrostatic sensitive devices.
Step	Action
1	Ensure the Enraf FlexLine Gauge is switched off or that the Remote Indicator is disconnected.
2	Loosen the end-cap lock, and unscrew the end cap from the Electronics side of the Transmitter housing.
3	Carefully depress the tabs on the sides of the Display Module and pull it off.
4	Set the write protect jumper and the failsafe jumper to the desired behavior. See Table 1 for jumper positioning.
5	Reinstall the Display Module. Carefully line up the display and interface connector and snap it into place. Verify that the two tabs on the sides of the display latch.
6	Screw on the end cap and tighten the end-cap lock.
7	Reconnect the Remote Indicator or switch on the Enraf FlexLine Gauge.





Image	Description
	Failsafe = DOWN (3.8mA) Write Protect = OFF (Not Protected)
	Failsafe = UP (21.8mA) NOT RECOMMEND Write Protect = OFF (Not Protected)
	Failsafe = DOWN (3.8mA) Write Protect = ON (Protected)
	Failsafe = UP (21.8mA) NOT RECOMMEND Write Protect = ON (Protected)

Table 1: Jumper settings

Configuration Guide

The Remote Indicator 3-button interface provides user interface and operation capability without opening the Remote Indicator.

The user must press **↓** button to call up the Main Menu. To exit the Main Menu and return to the PV display screen, select **<EXIT>**.

Use the **↓** button to scroll through the list of menu items. Press the **↓** button to select an item for data entry or activation. When an item is selected for data entry or activation, the cursor is positioned over the left-most digit to allow editing of the value. No action is taken against a menu item until the **↓** button is pressed.

Level 1	Level 2	Level 3
<Exit>	n/a	n/a
Diagnostics	Critical Non-Critical	For details see table 6
Display Setup	LCD Contrast	For details see table 5
Device Setup	HART Setup Parameters	For details see table 4
Information	Display Comm Module	For details see table 3

Table 2: Main Menu Structure

<Return> Return to the Level 1 menu				
<Return>				
LCD Contrast	Set Contrast	0 – 9 Default: 5	Adjust the LCD contrast level.	Press ↓ to edit, ↑ or ↓ to select number and ↓ to enter.

Table 3: Display Setup Menu

<Return> Return to the Level 1 menu				
<Return>				
Parameters	HART Address	7 or 8 Default: 7	HART polling address	Press ↓ to edit, ↑ or ↓ to select number and ↓ to enter.
	Standby Time	0 – 15 Default: 5	Enter the time in minutes until the device automatically goes online once in standby. 0 means the device does NOT automatically go online.	Press ↓ to edit, ↑ or ↓ to select number and ↓ to enter.

Table 4: Device Setup Menu

<Return> Return to the level 1 menu				
<Return>				
Display	Firmware Version		The firmware version of the Display Module	Read Only
	<Return>			
Comm Module	Firmware Version		The firmware version of the Communication Module	Read Only

Table 5: Information Menu

<Return> Return to the Level 1 menu			
<Return>			
Critical	Comm Module	OK FAULT	FAULT: There is a problem with the Communications Module.
	<Return>		
Non-Critical	Supply Voltage	OK LOW HIGH	LOW: Supply voltage is below the low specification limit HIGH: Supply voltage is above the high specification limit.
	Comm Module Temp	OK OVER TEMP	OVER TEMP: Communications Module temperature is greater than 85°C.
	Display Setup	OK NVM CORRUPT	NVM CORRUPT: The Display setup memory is corrupted.

Table 6: Diagnostic Menu

All Diagnostics menu items are Read Only

Appendix A. PRODUCT CERTIFICATIONS

A1. Hazardous Locations Certifications

MSG CODE	AGENCY	TYPE OF PROTECTION	Electrical Parameters	Ambient Temperature
C	ATEX	Flame-proof and Dust: 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
		Intrinsically Safe: II 1 G Ex ia IIC T4 Ga	Note 2	-20°C to 70°C
		Non-Incendive II 3 G Ex ec IIC T4 Gc	Note 1	-20°C to 85°C
		Enclosure: Type IP66/IP67	ALL	ALL
STANDARDS: EN 60079-0: 2018; EN 60079-1: 2014; EN 60079-11: 2012; EN 60079-31: 2014; EN 60079-7: 2015;				
D	IECEX	Flame-proof: 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
		Intrinsically Safe: Ex ia IIC T4 Ga	Note 2	-20°C to 70°C
		Non-Incendive Ex ec IIC T4 Gc	Note 1	-20°C to 85°C
		Enclosure: IP66/ IP67	ALL	ALL
STANDARDS: IEC 60079-0: 2017 IEC 60079-1: 2014; IEC 60079-11: 2011; IEC 60079-7: 2017; IEC 60079-31: 2013				

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