Quick Start Guide
00825-0100-3166, Rev AC
May 2020

Rosemount™ 1066

Single Channel Transmitter

ROSEMOUNT™

EMERSON.

Safety Information

For information on specifications, programming, calibration, and HART® communications, see the Rosemount 1066 Transmitter Reference Manual at Emerson.com/Rosemount.

Emerson designs, manufactures, and tests its products to meet many national and international standards. Because these instruments are sophisticated technical products, you must properly install, use, and maintain them to ensure they continue to operate within their normal specifications. You must adhere to the following instructions and integrate them into your safety program when installing, using, and maintaining Emerson's Rosemount products. Failure to follow the proper instructions may cause any one of the following situations to occur: loss of life, personal injury, property damage, damage to this instrument, and warranty invalidation.

- Read all instructions prior to installing, operating, and servicing the product.
- If this Quick Start Guide is not the correct one, call 1-800-854-8257 or 949-757-8500 to request the correct Quick Start Guide. Save this Quick Start Guide for future reference.
- If you do not understand any of the instructions, contact your Emerson representative for clarification.
- Follow all warnings, cautions, and instructions marked on and supplied with the product.
- Inform and educate your personnel in the proper installation, operation, and maintenance of the product.
- Install equipment as specified in the installation instructions of the appropriate Reference Manual and per applicable local and national codes. Connect all products to the proper electrical and pressure sources.
- When replacement parts are required, ensure that qualified people use replacement parts specified by Emerson. Unauthorized parts and procedures can affect the product's performance, place the safe operation of your process at risk, and VOID YOUR WARRANTY. Look-alike substitutions may result in fire, electrical hazards, or improper operation.
- Ensure that all equipment doors are closed and protective covers are in place, except when maintenance is being performed by qualified people, to prevent electrical shock and personal injury.

⚠ WARNING

Risk of electrical shock

Do not open while the circuit is live.
Only clean with a damp cloth.

NOTICE

If a 475 Universal HART® Communicator is used with these transmitters, the software within the 475 may require modification. If a software modification is required, please contact your local Emerson Service Group or National Response Center at 1-800-654-7768.

⚠ WARNING

Electrostatic ignition hazard

Special conditions for safe use (when installed in hazardous areas)

The plastic enclosure, except the front panel, must only be cleaned with a damp cloth. The surface resistivity of the non-metallic enclosure materials is greater than one gigaohm. Take care to avoid electrostatic charge build-up. Do not rub or clean the transmitter with solvents or a dry cloth.

The panel mount gasket has not been tested for type of protection IP66 or Class II and III. Type of protection IP66 and Class II, III refer to the enclosure only.

Special condition of use of Rosemount 1066 C FF/FII5 and 1066 T FF/FII5. For use with simple apparatus Rosemount 140, 141, 142, 150, 400, 401, 402, 402VP, 403, 403VP, 404, and 410VP contacting conductivity sensors and Rosemount 222, 225, 226, and 228 toroidal sensors.

⚠ WARNING

Physical access

Unauthorized personnel may potentially cause significant damage to and/or misconfiguration of end users' equipment. This could be intentional or unintentional and needs to be protected against.

Physical security is an important part of any security program and fundamental to protecting your system. Restrict physical access by unauthorized personnel to protect end users' assets. This is true for all systems used within the facility.

Contents

1 Install

1.1 Unpack and inspect

Procedure

1. Inspect the shipping container. If it is damaged, contact the shipper immediately for instructions.
2. If there is no apparent damage, unpack the container. Be sure all items shown on the packing list are present. If items are missing, notify Emerson immediately.

1.2 Mount

Figure 1-1: Panel Mount Front View

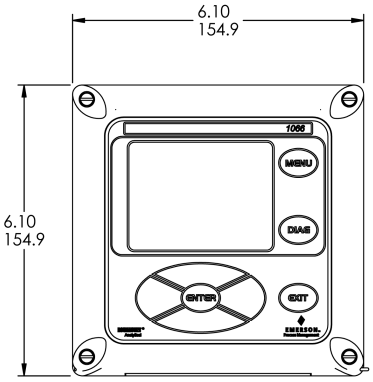
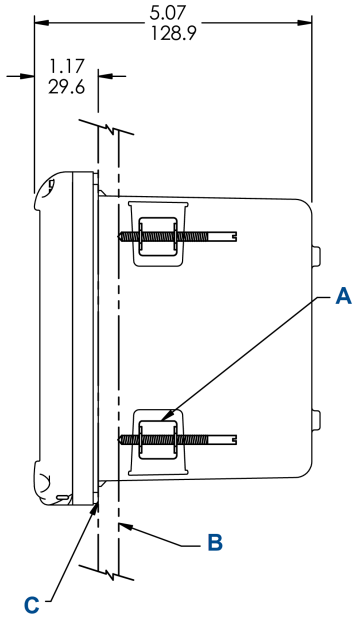
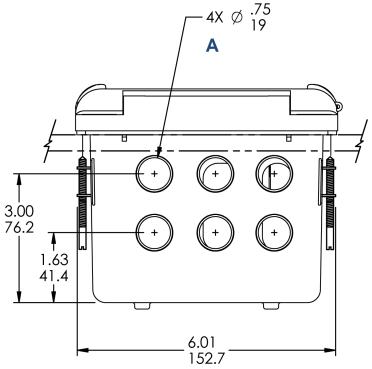


Figure 1-2: Panel Mount Side View



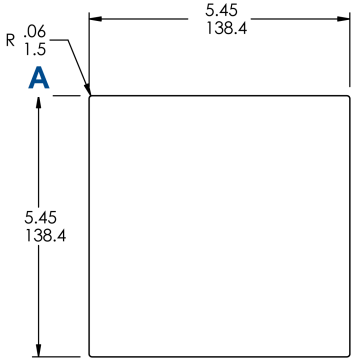
A. Four mounting brackets and screws provided with instrument
B. Panel supplied by others. Maximum thickness: 0.375 in. (9.52 mm)
C. Panel mount gasket

Figure 1-3: Panel Mount Bottom View



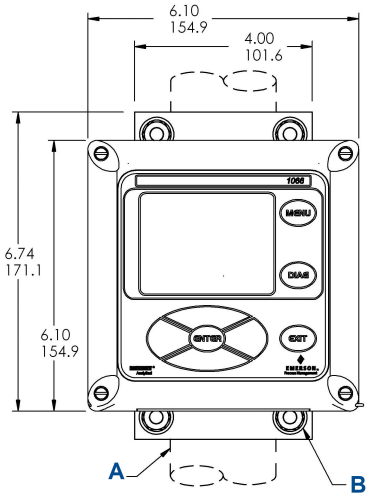
A. Conduit openings

Figure 1-4: Panel Cut-Out



A. Maximum

Figure 1-5: Wall Mount Front View



A. 2-in. (50.8 mm) pipe supplied by customer
B. Four cover screws

Figure 1-6: Wall Mount Side View

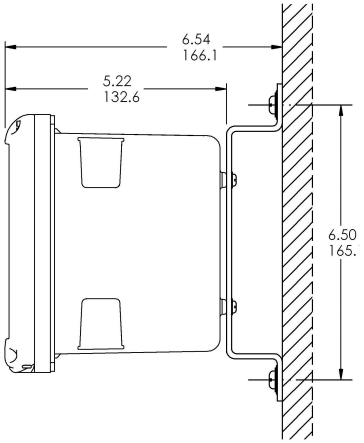
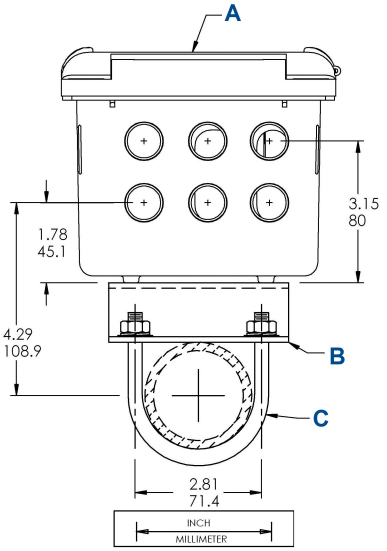
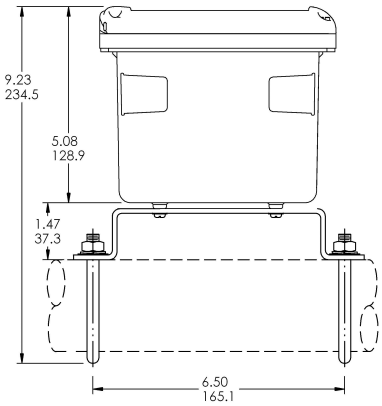


Figure 1-7: Pipe Mount Bottom View



A. Front panel
B. 2-in. (50.8 mm) pipe mount bracket
C. Two sets of U-bolts for 2-in. (50.8 mm) pipe in kit PN 23820-00

Figure 1-8: Pipe Mount Side View



1.3 General installation information

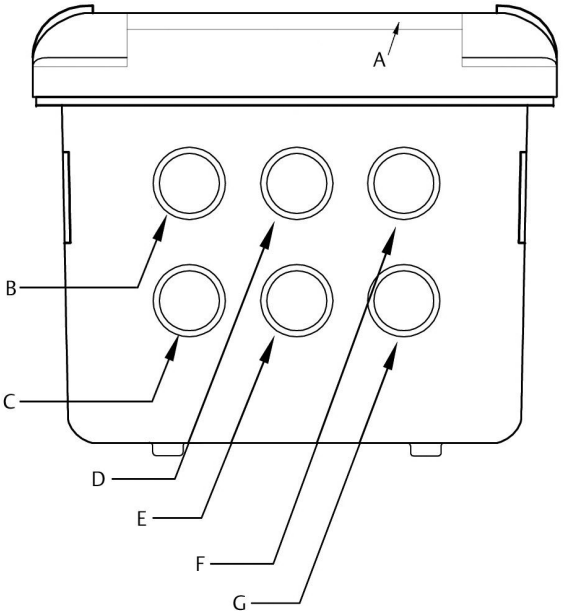
1. Install the transmitter with a sunshield or out of direct sunlight and areas with extreme temperatures.
2. Install the system in an area where vibrations and electromagnetic and radio frequency interference are minimized or absent.
3. Keep the transmitter and sensor wiring at least 1 ft. (0.3 m) from high voltage conductors. Be sure there is easy access to the transmitter and sample conditioning system.
4. The transmitter is suitable for panel, pipe, or surface mounting.
5. The transmitter case has six ½-in. (12.7 mm) conduit openings. Use separate conduit openings for the power/output cable, the sensor cable, and the other sensor cable as needed (pH input for free chlorine with continuous pH correction).
6. Use weathertight cable glands to keep moisture out of the transmitter. If using a conduit, plug and seal the connections at the transmitter housing to prevent moisture from getting inside the instrument.
7. Install cable gland fittings and plugs as needed to properly seal the transmitter on all six enclosure openings. The USB port cover must be fully installed on the front cover to ensure proper transmitter sealing.

1.4 Prepare conduit openings

There are six conduit openings in all configurations of the transmitter.

Note
Emerson fits four of the openings with plugs upon shipment.

Figure 1-9: Conduit Openings



A. Front panel/keypad
B. Power leads
C. Alarm relay leads
D. Sensor 1 cable
E. 4-20 mA/HART®/Profibus® leads
F. Sensor 2 cable
G. Spare opening

Note
Always use proper cable gland fittings and plugs for wire and cable installations.

Conduit openings accept ½-in. (12.7 mm) conduit fittings or PG13.5 cable glands. To keep the case watertight, block unused openings with Type 4X or IP66 conduit plugs.

To maintain ingress protection for outdoor use, seal unused conduit holes with suitable conduit plugs.

Note
Use watertight fittings and hubs that comply with your requirements. Connect the conduit hub to the conduit before attaching the fitting to the transmitter.

Important
Electrical installation must be in accordance with the National Electrical Code (ANSI/NFPA-70) and/or any other applicable national or local codes.

2 Wire

2.1 General wiring information

The transmitter is easy to wire.

All wiring connections are located on the main circuit board.The front panel is hinged at the bottom. The panel swings down for easy access to the wiring locations.

2.2 Digital communication boards

HART® and FOUNDATION™ Fieldbus communications are available as ordering options for the Rosemount 1066. HART units support Bell 202 digital communications over analog 4-20 mA current output 1.

2.3 HART® power supply - current loop wiring

Refer to Figure 2-1.

Run the power/signal wiring through the opening nearest TB-2.

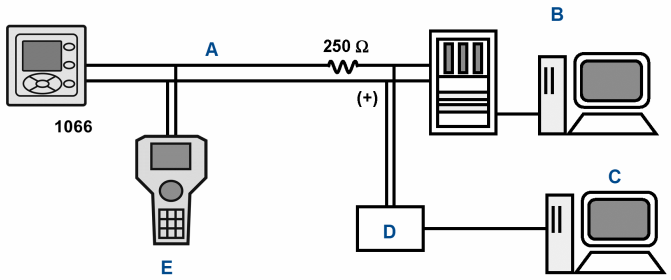
For optimum EMI/RFI protection:

1. Use shielded power/signal cable and ground the shield at the power supply.
2. Use a metal cable gland and be sure the shield makes good electrical contact with the gland.
3. Use the metal backing plate when attaching the gland to the transmitter enclosure. The power/signal cable can also be enclosed in an earth-grounded metal conduit.

Note

Do not run power supply/signal wiring in the same conduit or cable tray with loop power lines. Keep power supply/signal wiring at least 6 ft. (2 m) away from heavy electrical equipment.

Figure 2-1: Rosemount 1066 System Block Diagram



A. 4-20 mA and HART signal
B. Control system
C. Computer
D. Bridge
E. Field Communicator

2.3.1 HART® power supply and load requirements

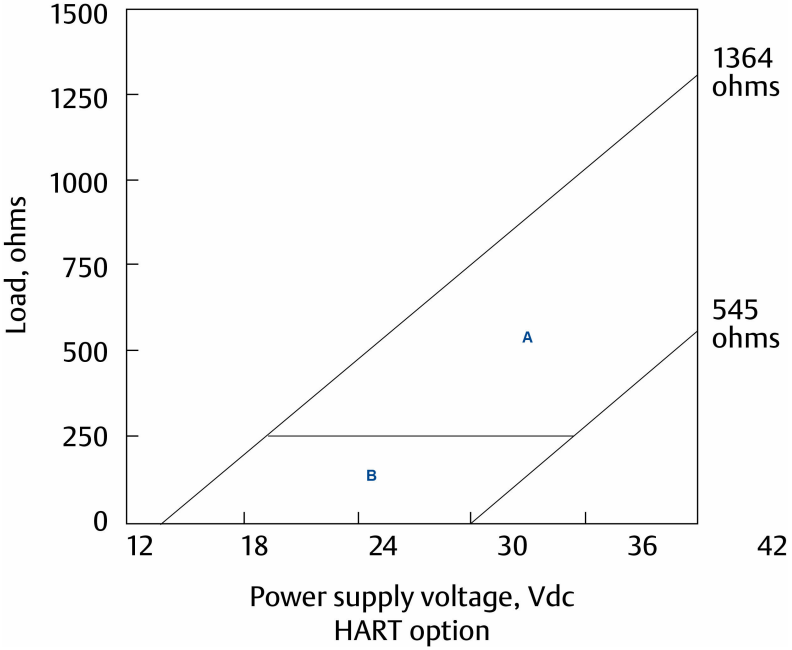
Table 2-1: HART Power Supply

Standard	Units
Minimum supply voltage at transmitter terminals	12.7 Vdc
Minimum load resistor	250 Ω
Maximum power supply voltage	20.0 Vdc
Maximum power supply voltage for intrinsically safe installation	30.0 Vdc
Minimum digital communications load	250 ohms
Minimum power supply voltage to supply the 12.7 Vdc lift off voltage at the transmitter	17.5 Vdc
Maximum current	About 24 mA

The power supply must be able to cover the voltage drop on the cable as well as the load resister required for HART communication. The power supply must also provide a surge current during the first 80 milliseconds of startup.

Refer to Figure 2-2. The lower line is the power supply voltage needed to provide 30 Vdc for a 22 mA current.

Figure 2-2: Load/Power Supply Requirements



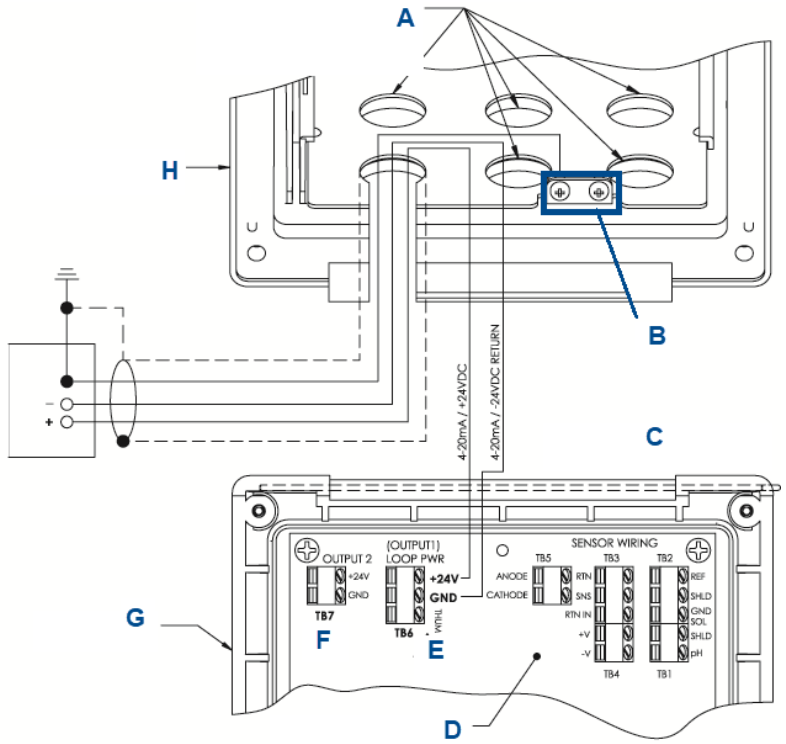
A. With HART communication
B. Without HART communication

2.3.2 HART® current output wiring

Emerson ships all instruments with two 4-20 mA current outputs. Current output 1 is the HART communications channel. Current output 2 is available to report process temperature measured by the temperature sensing element or resistance temperature device (RTD) within the sensor.

Wiring locations for the outputs are on the main board, which is mounted on the hinged door of the instrument. Wire the output leads to the correct position on the main board using the lead markings (+/positive, -/negative) on the board.

Figure 2-3: Rosemount 1066 HART loop power wiring



A. *Install plugs in all other openings as needed*
B. *Ground lugs*
C. *Hinge side of front panel*
D. *Rosemount 1066 HART circuit board (pH/amperometric) ASSY 24539-00*
E. *TB5/THUM terminal is only used for wireless THUM adaptor instllations*
F. *TB7/output 2 requires external DC power*
G. *Hinged panel*
H. *Inner enclosure*

2.4 Wire FOUNDATION™ Fieldbus power supply

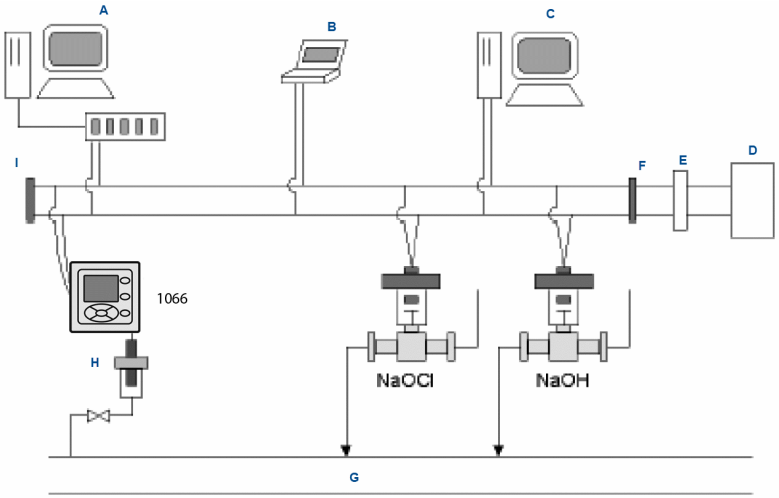
Procedure

1. Run the power /signal wiring through the opening nearest TB2.
2. Use shielded cable and ground the shield at the power supply.
3. To ground the transmitter, attach the shield to TB2-3.

Note
For optimum electromagnetic interference (EMI) and radio frequency interference (RFI) immunity, shield the power supply/output cable and enclose it in an earth-grounded metal conduit. Do not run power supply/signal wiring in the same conduit or cable tray with loop power lines. Keep power supply/signal wiring at least 6 ft. (2 m) away from heavy electrical equipment.

Figure 2-4 shows the Rosemount 1066PFF being used to measure and control pH and chlorine levels in drinking water. The figure also shows three ways in which Fieldbus communication can be used to read process variables and configure the transmitter.

Figure 2-4: Configuring Rosemount 1066P Transmitter with FOUNDATION Fieldbus



A. DeltaV configurator and host
B. Fieldbus technician configurator
C. Other host
D. Power supply
E. Filter
F. Terminator
G. Process line
H. pH sensor
I. Terminator

2.5 Wire sensor to transmitter

Procedure

1. Wire the correct sensor leads to the main board using the lead locations marked directly on the board.

   Use integral cable SMART sensors or compatible VP8 pH cables to wire the Rosemount SMART pH sensors to the transmitter.

2. After wiring the sensor leads, use wiring diagrams found in the sensor manual to guide you as you carefully take up the excess sensor cable through the cable gland.

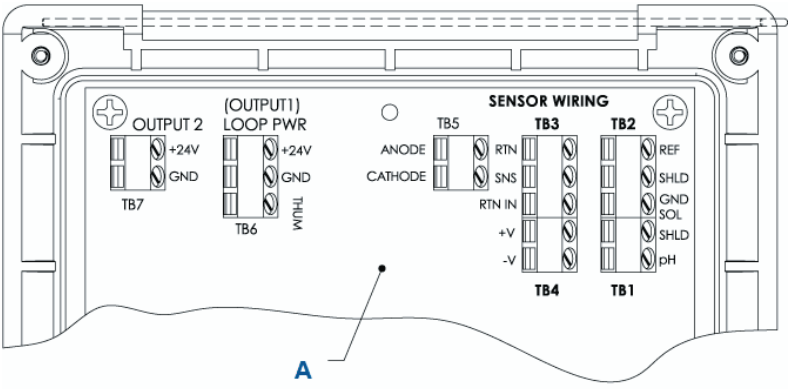
⚠ CAUTION

Keep sensor and output signal wiring separate from loop power wiring. Do not run sensor and power wiring in the same conduit or close together in a cable tray.

When wiring a pH/ORP sensor to the transmitter, follow this order:

1. Wire the terminal block 3/resistance temperature device (RTD) to the return, sense, and RTD in terminals.
2. Wire TB2/reference and solution ground to the reference in, reference shield, and solution ground terminals.
3. Wire TB4/preamplifier (if present) to the +volts and -volts terminals.
4. Wire TB1/pH input to the pH shield and pH in terminals.

Figure 2-5: pH/ORP Sensor Wiring to the Transmitter Printed Circuit Board



A. Rosemount 1066 circuit board ASSY 24539-00 (HART®)

Note

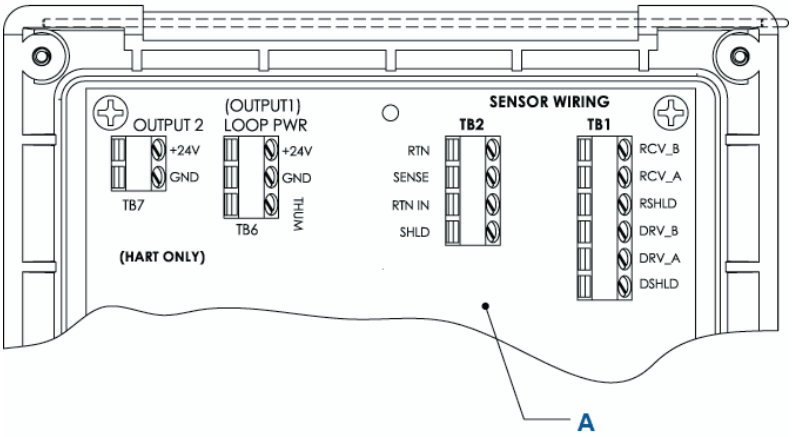
A. If ground lead is present, terminate it to green ground screw on inner enclosure.

B. TB5, TB6, and TB7 are not used for pH/ORP sensor wiring.

When wiring a contacting or toroidal conductivity sensor to the transmitter, follow this order:

1. Wire TB2/RTD to the return, sense, RTD in, and shield terminals.
2. Wire TB1/conductivity to the receive B, receive A, shield, drive B, drive A, and shield terminals.

Figure 2-6: Contacting and Toroidal Conductivity Sensor Wiring to the Transmitter Circuit Board

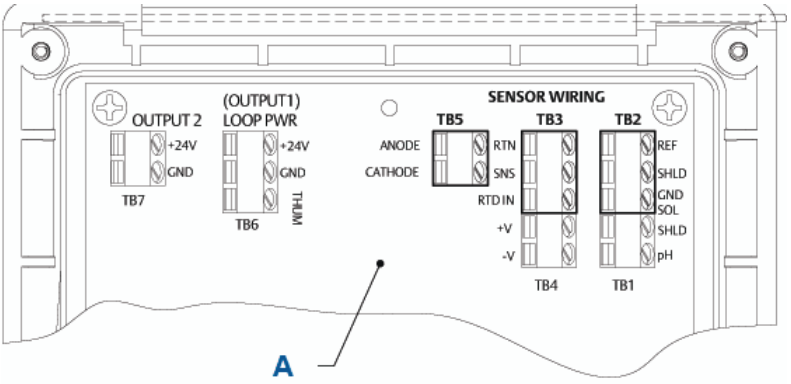


A. Rosemount 1066 circuit board ASSY 24638-00 (HART)

When wiring a chlorine, oxygen, or ozone sensor to the transmitter, follow this order:

1. Wire TB5/anode and cathode to the anode and cathode terminals.
2. Wire TB3/RTD to the return, sense, and RTD in terminals.
3. Wire the TB2/solution ground to the solution ground terminal.

Figure 2-7: Chlorine, Oxygen, Ozone Sensor Wiring to Transmitter Printed Circuit Board



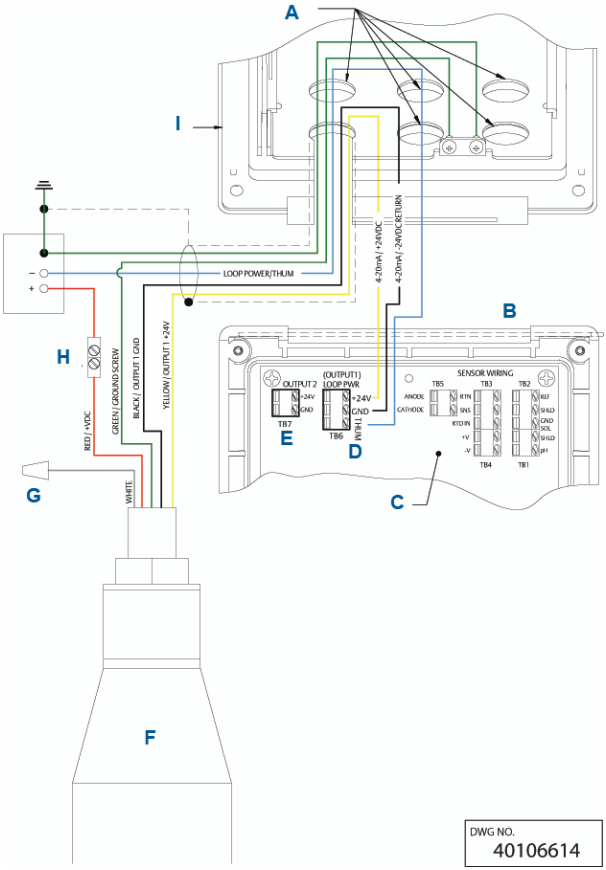
A. Rosemount 1066 circuit board ASSY 24406-xx

Note

A. TB1, TB4, TB6, and TB7 not used for oxygen and ozone sensor wiring.

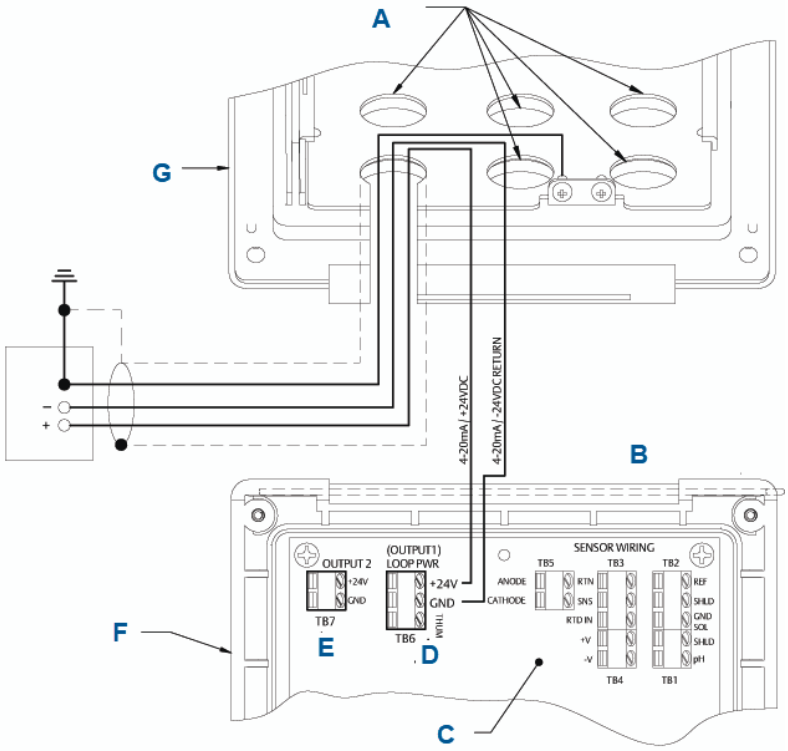
B. TB1, TB2, and TB4 may be used for pH sensor wiring if free chlorine measurement requires live pH input.

Figure 2-8: Power/Current Loop Wiring with Wireless THUM Adaptor



A. Install plugs in all other openings as needed.
B. Hinge side of front panel
C. HART circuit board (pH/chlorine/dissolved oxygen/ozone) ASSY 24406-xx
D. TB6/THUM terminal is used only for wireless THUM adapter installations. 250 ohm resistor is pre-installed in-circuit.
E. TB7/output 2 requires external DC power
F. Wireless THUM adapter
G. Wire nut
H. Splice connector - provided by end user
I. Inner enclosure

Figure 2-9: HART Loop Power Wiring



A. Install plugs in all other openings as needed
B. Hinge side of front panel
C. HART circuit board (pH/chlorine/dissolved oxygen/ozone) ASSY 24406-xx
D. TB6/THUM terminal is used only for wireless THUM adapter installations
E. TB7/output 2 requires external DC power
F. Hinged panel
G. Inner enclosure

For recommended wire entry points, see Figure 1-9.

3 Navigating the display

3.1 User interface

The transmitter has a large display which shows the measurement readout and temperature in large digits and up to four additional process variables or diagnostic parameters concurrently. You can customize the displayed variables to meet your requirements. This is called display format.

The intuitive menu system allows access to Calibration, Hold (of current outputs), Programming, and Display functions. In addition, a dedicated **DIAG** button is available to provide access to useful operational information on installed sensor(s) and any problematic conditions that might occur. The display flashes **Fault** and/or **Warning** when these conditions appear. ***Help*** screens are displayed for most fault and warning conditions to guide you in troubleshooting. During calibration and programming, key presses cause different displays to appear. The displays are self-explanatory and guide you step-by-step through the procedure.

3.2 Instrument keypad

There are four function keys and four selection keys on the instrument keypad.

Function keys

Four top-level menu items appear when you press **MENU**.

- ***Calibrate***: Calibrate the attached sensor(s) and analog output(s).
- ***Hold***: Suspend analog output(s).
- ***Program***: Program outputs, measurement, temperature, security, and reset.
- ***Display***: Program display format, language, warnings, and contrast.

Press **MENU** to display the ***Main Menu*** screen. Press **MENU** followed by **EXIT** to display the main display.

Pressing the **DIAG** key displays active faults and warnings and provides detailed instrument information and sensor diagnostics, including: faults, warnings, sensor information, Out 1 and Out 2, the current values, model configuration string (e.g. 1066-P-Ht-60), and instrument software version. Pressing **DIAG** on Sensor 1 or Sensor 2 provides useful diagnostics and information (as applicable): measurement, sensor type, raw signal value, cell constant, zero offset, temperature, temperature offset, selected measurement range, cable resistance, temperature sensor resistance, and software version.

Press **ENTER** to store numbers and settings and move the display to the next screen.

Press **EXIT** to return to the previous screen without storing changes.

Selection keys

Surrounding the **ENTER** key, four selection keys - **Up**, **Down**, **Right**, and **Left** - move the cursor to all areas of the screen while using the menus.

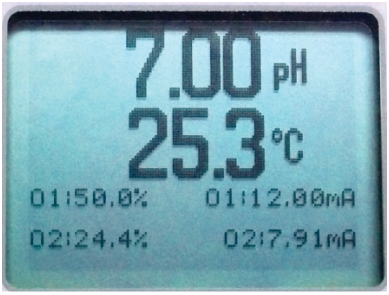
Selection keys are used to:

1. Select items on the menu screens.
2. Scroll up and down the menu lists.
3. Enter or edit numeric values.
4. Move the cursor to the right or left.
5. Select measurement units during operation.

3.3 Main display

The transmitter displays the primary measurement value and temperature and up to four secondary measurement values, a fault and warning banner, and a digital communications icon.

Process measurements



One process variable and process temperature are displayed by default. For all configurations, the upper display area shows the live process variable, and the center display area shows the temperature (default screen settings).

Secondary values

Up to four secondary values are shown in display quadrants at the bottom half of the screen. You can program all four secondary value positions to any displayable parameter available.

Fault and Warning banner

If the transmitter detects a problem with itself or the sensor, the word **Fault** or **Warning** will appear at the bottom of the display. A fault requires immediate attention. A warning indicates a problematic condition or an impending failure. For troubleshooting assistance, press **DIAG**.

Formatting the main display

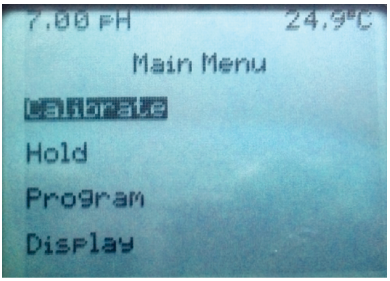
You can program the main display screen to show primary process variables, secondary process variables, and diagnostics.

1. Press **MENU**.
2. Scroll down to **Display**. Press **ENTER**.
3. **Main Format** is highlighted. Press **ENTER**.
4. The Sensor 1 process value is highlighted in reverse video. Press the selection keys to navigate down to the screen sections that you wish to program. Press **ENTER**.
5. Choose the desired display parameter or diagnostic for each of the four display sections in the lower screen.

6. Continue to navigate and program all desired screen selections. Press **MENU** and **EXIT**. The screen returns to the main display.

The default display shows the live process measurement in the upper display area and the temperature in the center display area. You can elect to disable the display of temperature in the center display area using the Main Format function.

3.4 Menu system



The transmitter uses a scroll and select menu system. Pressing the **MENU** key at any time opens the top-level menu including Calibrate, Hold, Program, and Display functions.

To find a menu item, scroll with the up and down keys until the item is highlighted. Continue to scroll and select menu items until the desired function is chosen.

To select the item, press **ENTER**. To return to a previous menu level or to enable the main live display, press the **EXIT** key repeatedly. To return immediately to the main display from any menu level, simply press **MENU** and then **EXIT**.

The selection keys have the following functions:

- The **Up** key (above **ENTER**) increments numerical values, moves the decimal point one place to the right, or selects units of measurement.
- The **Down** key (below **ENTER**) decrements numerical values, moves the decimal place one place to the left, or selects units of measurement.
- The Left key (left of **ENTER**) moves the cursor to the left.
- The Right key (right of **ENTER**) moves the cursor to the right.

To access desired menu functions, use the Quick Reference. During all menu displays (except main display format and Quick Start), the live process measurement and temperature value are displayed in the top two lines of the upper display area. This conveniently allows display of the live values during important calibration and programming operations. Menu screens will time out after two minutes and return to the main live display.

4 Start up transmitter

Procedure

1. Wire sensor(s) to the signal boards.

   See Wire for wiring instructions. Refer to the sensor Quick Start Guide for additional details. Make current output, alarm relay, and power connections.

2. Once connections are secured and verified, apply DC power to the transmitter.

   This symbol identifies a risk of electical shock.

   This symbol identifies a potential hazard. When this symbol appears, consult the manual for appropriate action.

   When the transmitter is powered up for the first time, ***Quick Start*** screens appear. Quick Start operating tips are as follows:

   a. A highlighted field shows the position of the cursor.

   b. To move the cursor left or right, use the keys to the left or right of the **ENTER** key. To scroll up or down or to increase or decrease the value of a digit, use the keys above and below the **ENTER** key. Use the **Left** or **Right** keys to move the decimal point.

   c. Press **ENTER** to store a setting. Press **EXIT** to leave without storing changes. Press **EXIT** during Quick Start to return the display to the initial startup screen (***Select language***).

3. Choose the desired language and press **ENTER.**
4. Choose measurement and press **ENTER**.
5. For pH, choose preamplifier location.

   a) Select **Analyzer** to use the integral preamplifier in the transmitter.

   b) Select **Sensor/J-Box** if your sensor is SMART or has an integral preamplifier or if you are using a remote preamplifier located in a junction box.

6. If applicable, choose units of measurement.
7. For contacting and toroidal conductivity, choose the sensor type and enter the numeric cell constant using the keys.
8. Choose temperature units: °F or °C.

The main display appears. The outputs are assigned to default values.

9. To change output settings, to scale the 4-20 mA current outputs, to change measurement-related settings from the default values, and to enable pH diagnostics, press **MENU**. Select **Program** and follow the prompts.

   Refer to the appropriate menu.

10. To return the transmitter to the factory default settings, choose **Program** under the ***Main Menu*** and then scroll to **Reset**.

    Please call Rosemount Customer Support Center at 1-800-854-8527 if you need further support.

5 Product certifications

Rev 1.1

5.1 European Directive information

A copy of the EU Declaration of Conformity can be found at the end of the Quick Start Guide. The most recent revision of the EU Declaration of Conformity can be found at Emerson.com/Rosemount.

5.2 Ordinary location certification

As standard, the transmitter has been examined and tested to determine that the design meets the basic electrical, mechanical, and fire protection requirements by a nationally recognized test laboratory (NRTL) as accredited by the Federal Occupational Safety and Health Administration (OSHA).

5.3 Installing equipment in North America

The US National Electrical Code® (NEC) and the Canadian Electrical Code (CEC) permit the use of Division marked equipment in Zones and Zone marked equipment in Divisions. The markings must be suitable for the area classification, gas, and temperature class. This information is clearly defined in the respective codes.

5.4 USA

5.4.1 FM intrinsically safe

Certificate	FM16US0181X
Standards	FM Class 3600:2011, FM Class 3610:2010, FM Class 3611:2004; FM Class 3810:2005, ANSI/ISA 60079-0:2009, ANSI/ISA 60079-11:2009 ANSI/IEC 60529:2004
Markings	Listing # 1, # 2, # 3, # 4: IS/I, II, III/1/ABCDEFG I/0, AEx ia IIC NI/I/2/ABCD DIP/II,III/1/EFG T4 Tamb = -20 °C to +65 °C Install per control drawing 1400670 IP66 Listing #5 and #6 IS/I, II, III/1/ABCDEFG; I/0, AEx ia IIC

T4 Tamb = -20 °C to +65 °C

NI/I/2/ABCD DIP/II,III/1/EFG

T4 Tamb = -20 °C to +65 °C

Install per control drawing 1400670

FISCO Field Device

IP66

Special Conditions for Safe Use (X):

Listings #1, #4, and #6

1. The panel mount gasket has not been tested for type of protection IP66 or Class II and III. Type of protection IP66 and Class II, III refer to the enclosure only.
2. The surface resistivity of the non-metallic enclosure materials is greater than one gigaohm. Care must be taken to avoid electrostatic charge build up. The transmitter must not be rubbed or cleaned with solvents or a dry cloth.

Listings #2, #3, and #5

1. The panel mount gasket has not been tested for type of protection IP66 or Class II and III. Type of protection IP66 and Class II, III refer to the enclosure only.
2. The surface resistivity of the non-metallic enclosure materials is greater than one gigaohm. Care must be taken to avoid electrostatic charge build up. The transmitter must not be rubbed or cleaned with solvents or a dry cloth.
3. For use with the Model series 222, 225, 226, or 228 toroidal sensors and/or the simple apparatus contacting conductivity sensors.

5.4.2 CSA intrinsically safe

Certificate	70176165
Standards	C22.2 No. 25-M1966, C22.2 No. 94-M91, C22.2 No.142-M1987, C22.2 No. 157-M1992, C22.2 No. 213-M1987, C22.2 No. 60529:05, UL 50, Eleventh Edition, UL 508, Seventeenth Edition, UL 913, Seventh Edition, UL 1203, Fourth Edition, ANSI/ISA Standard: 12.12.01–2013
Markings	Intrinsically Safe: Class I, II, III Division 1, Groups ABCDEFG T4 Tamb = -20 °C to +65 °C Non-Incendive: Class I, Division 2, Groups ABCD T4

Dust Ignition Proof:
Class II, III, Division 1 Groups EFG
Install per DWG 1400669
IP66, Type 4X Enclosure

5.5 Canada

5.5.1 CSA intrinsically safe

Certificate 70176165

Standards C22.2 No. 25-M1966, C22.2 No. 94-M91, C22.2 No.142-M1987, C22.2 No. 157-M1992, C22.2 No. 213-M1987, C22.2 No. 60529:05, UL 50, Eleventh Edition, UL 508, Seventeenth Edition, UL 913, Seventh Edition, UL 1203, Fourth Edition, ANSI/ISA Standard: 12.12.01–2013

Markings Intrinsically Safe:
Class I, II, III Division 1, Groups ABCDEFG T4
Tamb = -20 °C to +65 °C
Non-Incendive:
Class I, Division 2, Groups ABCD T4
Dust Ignition Proof:
Class II, III, Division 1 Groups EFG
Install per DWG 1400669
IP66, Type 4X Enclosure

5.6 Europe

5.6.1 ATEX intrinsically safe

Certificate Baseefa11ATEX0195X

Standards EN 60079-0:2012+A11:2013
EN 60079-11:2012

Markings  II 1 G
Ex ia IIC T4 Ga
(-20 °C ≤ Ta ≤ +65 °C)

Special Conditions for Safe Use (X):

1. The plastic enclosure, excluding the front panel, may constitute a potential electrostatic ignition risk and must only be cleaned with a damp cloth.

5.7 International

5.7.1 IECEx intrinsically safe

Certificate	IECEx BAS 11.0098X
Standards	IEC 60079-0:2011 IEC 60079-11:2011
Markings	Ex ia IIC T4 Ga IP66 -20 °C ≤ Ta ≤ +65 °C

Special Conditions for Safe Use (X):

1. The plastic enclosure, excluding the front panel, may constitute a potential electrostatic ignition risk and must only be cleaned with a damp cloth.

5.8 Brazil

5.8.1 UL intrinsically safe

Certificate	UL-BR 18.0477X
Standards	ABNT NBR IEC 60079-0:2013 ABNT NBR IEC 60079-11:2013
Markings	Ex ia IIC T4 Ga IP66 (-20 °C ≤ Ta ≤ +65 °C)

Special Conditions for Safe Use (X):

1. The plastic enclosure, excluding the front panel, may constitute a potential electrostatic ignition risk and must only be cleaned with a damp cloth.

5.9 EAC

5.9.1 EAC Technical Regulations Customs Union (EAC) intrinsically safe

Certificate	TC RU C-US.MIO62.B.06009
Markings	0Ex ia IIC T4 Ga X (-20 °C ≤ Ta ≤ +65 °C) IP66

A Declaration of Conformity

EMERSON

CE

EU Declaration of Conformity

No: RAD 1118 Rev. B

We,

Rosemount Inc.
8200 Market Boulevard
Chanhassen, MN 55317-9685
USA

declare under our sole responsibility that the product,

Rosemount™ Smart-enabled, 2-wire Transmitter
Model 1066-AA-BB-CC

manufactured by,

Rosemount Inc.
8200 Market Boulevard
Chanhassen, MN 55317-9685
USA

to which this declaration relates, is in conformity with the provisions of the European Union Directives, including the latest amendments, as shown in the attached schedule.

Assumption of conformity is based on the application of the harmonized standards and, when applicable or required, a European Union notified body certification, as shown in the attached schedule.

(signature)	Vice President of Global Quality (function)
Chris LaPoint (name)	1-Feb-19; Shakopee, MN USA (date of issue & place)

Page 1 of 2

EMERSON

CE

EU Declaration of Conformity

No: RAD 1118 Rev. B

The product,

Rosemount™ Smart-enabled, 2-wire Transmitter
Model 1066-AA-BB-CC

Where,

AA is Measurement:		BB is Communication:		CC is Agency Approval:	
P	pH/ORP measurement	HT	Analog/HART communication	60	None
CL	Chlorine measurement	FF	Fieldbus communication	67	Labelled for FM
DO	Dissolved Oxygen measurement	FI	FISCO communication	69	Labelled for CSA
OZ	Ozone measurement			73	Labelled for ATEX/IECEx
C	Contacting Conductivity measurement				
T	Toroidal Conductivity measurement				

to which this declaration relates, is in conformity with relevant Union harmonization legislation:

EMC Directive (2014/30/EU)

Harmonized Standards:
EN 61326-1:2013

ATEX Directive (2014/34/EU) (The ATEX Directive is only valid if option 73 is selected)

Baseefa11ATEX0195X – Intrinsically Safe, EC Type Examination Certificate
Equipment Group II, Category 1 G Ex ia IIC T4 Ga (-20°C ≤ Ta ≤ +65°C)
Harmonized Standards:
EN 60079-0: 2012+A11:2013
EN 60079-11:2012

Specific Conditions of Use:
The plastic enclosure, excluding the front panel, may constitute a potential electrostatic ignition risk and must only be cleaned with damp cloth.

ATEX Notified Body for EC Type Examination Certificate & Quality Assurance:

SGS FIMKO OY [Notified Body Number: 0598]
P.O. Box 30 (Särkiniementie 3)
00211 HELSINKI
Finland

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B China RoHS table

表格 1: 含有 China RoHS 管控物质超过最大浓度限值的部件型号列
Table 1: List of Model Parts with China RoHS Concentration above MCVs

部件名称 Part Name	有害物质 / Hazardous Substances					
	铅 Lead (Pb)	汞 Mercury (Hg)	镉 Cadmium (Cd)	六价铬 Hexavalent Chromium (Cr +6)	多溴联苯 Polybrominated biphenyls (PBB)	多溴联苯醚 Polybrominated diphenyl ethers (PBDE)
电子组件 Electronics Assembly	X	O	O	O	O	O
传感器组件 Sensor Assembly	X	O	O	O	O	O

本表格系依据 SJ/T11364 的规定而制作。
This table is proposed in accordance with the provision of SJ/T11364
O: 意为该部件的所有均质材料中该有害物质的含量均低于 GB/T 26572 所规定的限量要求。
O: Indicate that said hazardous substance in all of the homogeneous materials for this part is below the limit requirement of GB/T 26572.
X: 意为在该部件所使用的所有均质材料里，至少有一类均质材料中该有害物质的含量高于 GB/T 26572 所规定的限量要求。
X: Indicate that said hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement of GB/T 26572.

Quick Start Guide
00825-0100-3166, Rev. AC
May 2020

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