

Rosemount™ 5081

Explosion-Proof, Single-Input Intelligent
Transmitter



Essential instructions

Read this page before proceeding!

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.
- To ensure proper performance, use qualified personnel to install, operate, update, program, and maintain the product.
- 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

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.

Notice

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Warranty

1. **LIMITED WARRANTY:** Subject to the limitations contained in Section 2 herein and except as otherwise expressly provided herein, Emerson ("Seller") warrants that the firmware will execute the programming instructions provided by Seller and that the Goods manufactured or Services provided by Seller will be free from defects in materials or workmanship under normal use and care until the expiration of the applicable warranty period. Goods are warranted for twelve (12) months from the date of initial installation or eighteen (18) months from the date of shipment by Seller, whichever period expires first. Consumables and Services are warranted for a period of 90 days from the date of shipment or completion of the Services. Products purchased by Seller from a third party for resale to Buyer ("Resale Products") shall carry only the warranty extended by the original manufacturer. Buyer agrees that Seller has no liability for Resale Products beyond making a reasonable commercial effort to arrange for procurement and shipping of the Resale Products. If Buyer discovers any warranty defects and notifies Seller thereof in writing during the applicable warranty period, Seller shall, at its option, promptly correct any errors that are found by Seller in the firmware or Services, or repair or replace F.O.B. point of manufacture that portion of the Goods or firmware found by Seller to be defective, or refund the purchase price of the defective portion of the Goods/Services. All replacements or repairs necessitated by inadequate maintenance, normal wear and usage, unsuitable power sources, unsuitable environmental conditions, accident, misuse, improper installation, modification, repair, storage or handling, or any other cause not the fault of Seller are not covered by this limited warranty, and shall be at Buyer's expense. Seller shall not be obligated to pay any costs or charges incurred by Buyer or any other party except as may be agreed upon in writing in advance by an authorized Seller representative. All costs of dismantling, reinstallation and freight, and the time and expenses of Seller's personnel for site travel and diagnosis under this warranty clause shall be borne by Buyer unless accepted in writing by Seller. Goods repaired and parts replaced during the warranty period shall be in warranty for the remainder of the original warranty period or ninety (90) days, whichever is longer. This limited warranty is the only warranty made by Seller and can be amended only in a writing signed by an authorized representative of Seller. Except as otherwise expressly provided in the Agreement, THERE ARE NO REPRESENTATIONS OR WARRANTIES OF ANY KIND, EXPRESSED OR IMPLIED, AS TO MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE, OR ANY OTHER MATTER WITH RESPECT TO ANY OF THE GOODS OR SERVICES. It is understood that corrosion or erosion of materials is not covered by our guarantee.
2. **LIMITATION OF REMEDY AND LIABILITY:** SELLER SHALL NOT BE LIABLE FOR DAMAGES CAUSED BY DELAY IN PERFORMANCE. THE SOLE AND EXCLUSIVE REMEDY FOR BREACH OF WARRANTY HEREUNDER SHALL BE LIMITED TO REPAIR, CORRECTION, REPLACEMENT, OR REFUND OF PURCHASE PRICE UNDER THE LIMITED WARRANTY CLAUSE IN SECTION 1 HEREIN. IN NO EVENT, REGARDLESS OF THE FORM OF THE CLAIM OR CAUSE OF ACTION (WHETHER BASED IN CONTRACT, INFRINGEMENT, NEGLIGENCE, STRICT LIABILITY, OTHER TORT, OR OTHERWISE), SHALL SELLER'S LIABILITY TO BUYER AND/OR ITS CUSTOMERS EXCEED THE PRICE TO BUYER OF THE SPECIFIC GOODS MANUFACTURED OR SERVICES PROVIDED BY SELLER GIVING RISE TO THE CLAIM OR CAUSE OF ACTION. BUYER AGREES THAT IN NO EVENT SHALL SELLER'S LIABILITY TO BUYER AND/OR ITS CUSTOMERS EXTEND TO INCLUDE INCIDENTAL, CONSEQUENTIAL, OR PUNITIVE DAMAGES. THE TERM "CONSEQUENTIAL DAMAGES" SHALL INCLUDE, BUT NOT BE LIMITED TO, LOSS OF ANTICIPATED PROFITS, LOSS OF USE, LOSS OF REVENUE, AND COST OF CAPITAL.

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1 First steps

1.1 Unpack and inspect

To unpack the instrument:

Procedure

1. Inspect the shipping container(s). If there is damage, contact the shipper immediately for instructions.
2. If there is no apparent damage, unpack the container(s).
3. Ensure that all items shown on the packing list are present.
If items are missing, contact your local Customer Care representative
4. Save the shipping container and packaging.
They can be used to return the instrument to the factory in case of damage.

1.2 Installation

1.2.1 Installation guidelines

1. The transmitter tolerates harsh environments. For best results, install the transmitter in an area where temperature extremes, vibrations, and electromagnetic and radio frequency interference are minimized or absent.
2. To prevent unintentional exposure of the transmitter circuitry to the plant environment, keep the security lock in place over the circuit end cap. To remove the circuit end cap, loosen the lock nut until the tab disengages from the cap end and then unscrew the cover.
3. The transmitter has two $\frac{3}{4}$ -in. (19.1 mm) conduit openings, one on each side of the housing. Run sensor cable through the left side opening (as viewed from the wiring terminal end of the transmitter) and run power wiring through the right side opening.
4. Use water tight cable glands to keep moisture out of the transmitter.
5. If using conduit, plug and seal the connections at the transmitter housing to prevent moisture from getting inside the transmitter.

⚠ CAUTION

Equipment damage

Moisture accumulating in the transmitter housing can affect the performance of the transmitter and may void the warranty.

6. If the transmitter is installed some distance from the sensor, a remote junction box with preamplifier in the junction box or in the sensor may be necessary. Consult the sensor Quick Start Guide for maximum cable lengths.

1.2.2 Orient the display board

The display board can be rotated 90 degrees, clockwise or counterclockwise, from the original position. To reposition the display:

Procedure

1. Loosen the cover lock nut until the tab disengages from the circuit end cap. Unscrew the cap.
2. Remove the three bolts holding the circuit board stack.
3. Lift and rotate the display board 90 degrees, clockwise or counterclockwise, into the desired position.
4. Position the display board on the stand offs. Replace and tighten the bolts.
5. Replace the circuit end cap.

2 Wire

2.1 Wiring overview

To find wiring diagrams for specific sensors, check the wiring sections of the reference manuals for those particular sensors.

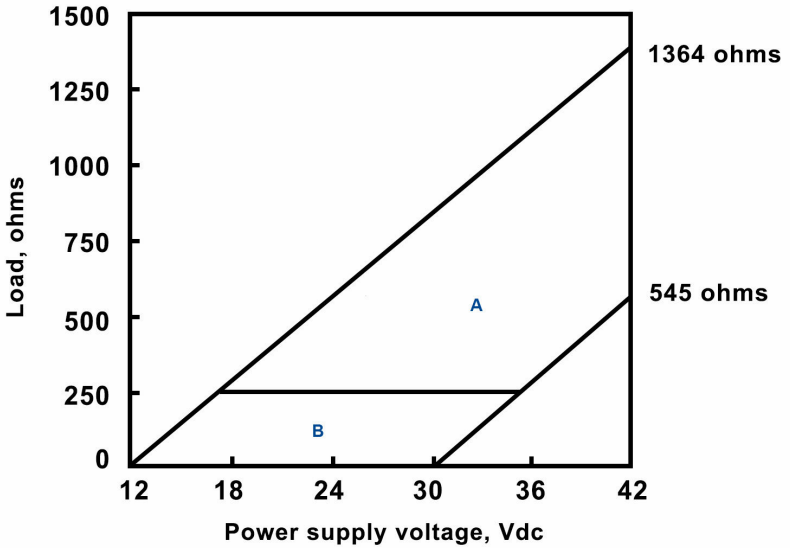
2.2 Power supply/current loop

2.2.1 Power supply overview

The tables below display the minimum and maximum voltages needed to operate the transmitter.

Minimum supply voltage at the transmitter terminals	12.0 Vdc
Minimum power supply for load resistor	250 Ohms
Maximum power supply voltage	42.0 Vdc
Maximum power supply voltage for intrinsically safe installations	30.0 Vdc

Figure 2-1: Power Supply Voltage for HART® or without HART Communication Configurations



- A. With HART communication
- B. Without HART communication

Table 2-1: Values from Graph

Upper line	Power supply voltage needed to provide 12 Vdc at the transmitter terminals for a 22 mA current
Lower line	Power supply voltage needed to provide 30 Vdc for a 22 mA current
Maximum current	About 24 mA
Minimum load for digital communications	250 Ohms
Minimum power supply voltage to supply the 12.0 Vdc lift off voltage at the transmitter	17.5 Vdc

2.2.2 Wire the transmitter with HART® or FOUNDATION™ Fieldbus

Procedure

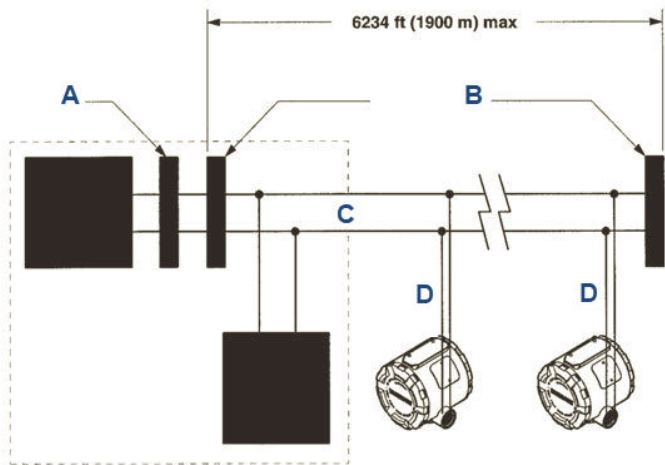
1. Run the power/signal wiring through the opening nearest terminals 15 and 16.
2. Use shielded cable and ground the shield to the power supply.
3. To ground the transmitter, attach the shield to the grounding screw on the inside of the transmitter case.

You can also use a third wire to connect the transmitter to earth ground.

Note

For optimum electromagnetic interference/radio frequency interference (EMI/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 AC power lines or with relay actuated signal cables. Keep power supply/signal wiring at least 6 ft. (2 m) away from heavy electrical equipment. An additional 0-1 mA current loop is available between TB-14 and TB-15. A 1 mA current in this loop signifies a sensor fault. See [Figure 2-2](#) for wiring instructions.

Figure 2-2: General wiring architecture



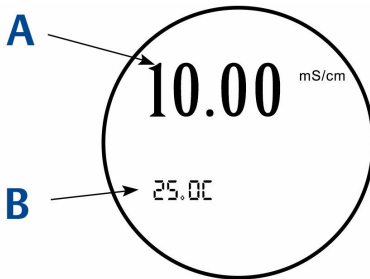
- A. Filter
- B. Terminator
- C. Trunk
- D. Spur

3 Display and operate

3.1 User interface and main display

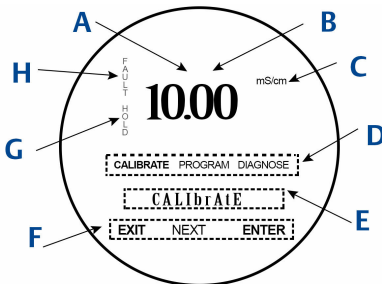
The following are examples of the main (process) display screen (Figure 3-1) and the program display screen (Figure 3-2).

Figure 3-1: Main Display Screen



- A. Conductivity value
- B. Temperature in °C or °F

Figure 3-2: Program Display Screen

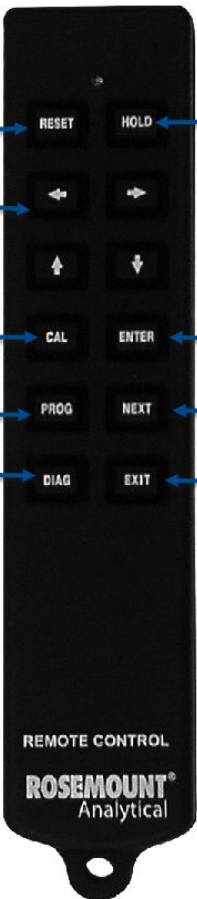


- A. Indicates HART® or FOUNDATION™ Fieldbus digital communications
- B. Conductivity value
- C. Units of display
- D. Active menu: CALIBRATE, PROGRAM, or DIAGNOSE
- E. Sub-menus, prompts, and diagnostic messages appear here.
- F. Available commands for sub-menus, prompts, or diagnostic messages
- G. Appears when transmitter is in hold
- H. Appears when a disabling condition has occurred

3.2 Infrared remote control (IRC)

Use the IRC to read diagnostics messages, calibrate connected sensors, and program the transmitter. Hold the IRC within 6 ft. (1.8 m) of the transmitter and less than 15 degrees from the horizontal of the display window.

Figure 3-3: Infrared Remote Control (IRC) Functions

<p>1. RESET</p> <ul style="list-style-type: none"> End current operation and return to the main display. Changes are not saved. Does not return the transmitter to factory default settings. 		<p>6. HOLD</p> <ul style="list-style-type: none"> Access to turn hold readings on or off.
<p>2. Editing (arrow) keys</p> <ul style="list-style-type: none"> Change values of a flashing display. Left and right arrows move the cursor by one digit. Up and down arrows increase or decrease the values and navigate through the display options. 		<p>7. ENTER</p> <ul style="list-style-type: none"> Advance to the next prompt. Store selected item. Store value in memory.
<p>3. CAL</p> <ul style="list-style-type: none"> Access to <i>Calibration</i> menu. 		<p>8. NEXT</p> <ul style="list-style-type: none"> Advance to the next sub-menu.
<p>4. PROG</p> <ul style="list-style-type: none"> Access to <i>Program</i> menu. 		<p>9. EXIT</p> <ul style="list-style-type: none"> End current operation. Return to the first prompt in the present sub-menu. Changes are not saved.
<p>5. DIAG</p> <ul style="list-style-type: none"> Access to diagnostics. 		

Guidelines for using IRC

- Do not use harsh chemicals or abrasive brushes when cleaning the remote control.
- If the green LED does not light when you press a key, the issue is probably a weak battery. To restore operation, remove four screws to access and replace the two batteries. Observe the two warning messages posted at the rear of the remote control.
- Requires two 1.5 V AAA batteries. If used in hazardous areas, replacement batteries must be Energizer E92/EN92 or Duracell MN2400/PC2400.
- All functions for remote control PN 24479-00 are the same as those for the previous remote control, PN 23572-00.

3.3 Menu system

There are three main menus: *Calibrate*, *Program*, and *Diagnose*. *Calibrate* and *Program* menus have additional sub-menus as shown in the figures below.

Table 3-1: Program Menu

Displayed item	Definition
OUtpUt	Current output menu header
4MA	4 mA current output (setpoint)
20MA	20 mA current output (setpoint)
HoLd	Current output on hold
FAULt	Fault condition current output setting
dPn	Current output dampening time
tESt	Current output test value
tAUtO	Automatic temperature compensation
tMAn	Manual temperature compensation
dISPLAY	Display menu header
tYP	Measurement type
tEMP	° C/° F toggle selection
OUtPUT	Current (mA) or percent of full scale display
COdE	Access code
OFFSt	Offset value

4 Start-up

Procedure

1. Using the infrared remote control (IRC), press **PROG**, **NEXT**, **NEXT**, and **ENTER** in this order.
2. Select the measurement type and unit of measurement.
3. Use the arrow keys to toggle between Celsius and Fahrenheit.
4. Press **ENTER** and then **RESET**.
5. Press **PROG**, **NEXT**, and **ENTER** in this order.
6. Use the arrow keys to toggle T AUTO between ON or OFF.
This determines whether the transmitter uses the process temperature (ON) or a manual temperature (OFF).
7. Press **ENTER**.
8. If you select OFF, enter the manual temperature desired using the arrow keys.
9. Press **ENTER**.

5 Rosemount 5081 - (A/P/C/T) 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 Rosemount 5081-(A/P/C/T) liquid transmitters

5.4.1 USA

FM hazardous locations

Certificate FM17US0021X

Standards FM Class 3600:2011, FM Class 3610:2015, FM Class 3611:2016, FM Class 3615:2006, FM Class 3810:2005, ANSI/NEMA 250:1991

Markings



Intrinsically Safe for use in Class I, II and III, Division 1, Groups A, B, C, D, E, F, and G; T4 Ta = -20 °C to 70 °C; Per Control Drawing Numbers 1400676; 1400677
Nonincendive for Class I, Division 2, Groups A, B, C, D; T4 Ta = -20 °C to 70 °C; Per Control Drawing Numbers 1400676; 1400677

Dust-Ignitionproof for use in Class II and Class III, Division 1, Groups E, F, G; T6 Ta = -20 °C to 70 °C; Per Control Drawing Number 1400678

Explosionproof for use in Class I, Div 1, Groups B, C, and D; T6 Ta = -20 °C to 70 °C; Per Control Drawing Number 1400678
Type 4X

Special Conditions for Safe Use (X):

1. The Rosemount 5081-T-HT-67, 5081-T-FF-67, and 5081-T-FI-67 conductivity transmitters shall only be used with Rosemount Models 222, 225, 226, 228, 242 (1-in. and 2-in. only), and 245 toroidal sensors.

5.4.2 Canada CSA hazardous locations

Certificate 1132747

Standards C22.2 No. 0-M1987, C22.2 No. 25-1966, C22.2 No. 30-M1986, C22.2 No. 94-M91, C22.2 No 142-M1987, C22.2 No. 157-92, C22.2, No. 213-M1987

Markings



Intrinsically Safe for Class I Groups A, B, C, D; Class II Groups E, F, G; Class III; T4 Tamb = 70 °C, per Installation Drawing 1400674 and 1400675

Non-Incendive for Class I, Div. 2 for Groups A, B, C, D; Class II, Div. 2, Groups F and G; Class III; T4 Tamb = 70 °C, per Installation Drawing 1400674 and 1400675 (5081-A/P/C/T), and per 1700462 (5081-T)

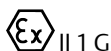
Explosion-proof for Class I, Groups B, C, D; Class II, Groups E, F, G, Class III, T6 Tamb = 70 °C
Type 4X

5.4.3 Europe Rosemount 5081-A and 5081-P liquid transmitters ATEX

Certificate BAS02ATEX1284X

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

Markings




Ex ia IIC T4 Ga
(-20 °C ≤ Ta ≤ +65 °C)

Special Conditions for Safe Use (X):

1. The Rosemount Model 5081 enclosure may be made of aluminum alloy and given a protective polyurethane paint finish; however, care should be taken to protect it from impact or abrasion if located in zone 0.

Rosemount 5081-C liquid transmitter

ATEX


Certificate	Baseefa03ATEX0099X
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 equipment enclosure may contain light metals. The equipment must be installed in such a manner as to minimize the risk of impact or friction with other metal surfaces.

Rosemount 5081-T liquid transmitter

ATEX

Certificate	Baseefa03ATEX0399X
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 equipment may contain light metals. The equipment must be installed in such a manner as to minimize the risk or impact or friction with other metal surfaces.

5.4.4 International IECEX

Certificate	IECEX BAS 09.0159X
Standards	IEC 60079-0:2011

IEC 60079-11:2011

Markings




Ex ia IIC T4 Ga
(-20 °C ≤ Ta ≤ +65 °C)



Special Conditions for Safe Use (X):

1. The Rosemount Model 5081 enclosure may be made of aluminum alloy and given a protective polyurethane finish; however care should be taken to protect it from impact or abrasion if located in a zone 0 environment.

A EU Declarations of Conformity

The following pages are the EU Declarations of Conformity for the Rosemount™ 5081-C Contacting Conductivity Transmitter, 5081 P/A Amperometric/pH Transmitter, and 5081-T Toroidal Conductivity Transmitter.

	
<p>EU Declaration of Conformity No: RAD 1117 Rev. B</p>	
5081-C	
We,	
<p>Rosemount Inc. 8200 Market Boulevard Chanassen, MN 55317-9685 USA</p>	
declare under our sole responsibility that the product,	
<p>Rosemount™ Contacting Conductivity Transmitter model 5081-AA-BB-CC-DD</p>	
manufactured by,	
<p>Rosemount Inc. 8200 Market Boulevard Chanassen, MN 55317-9685 USA</p>	
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.	
	<p>Vice President of Global Quality (function)</p>
<p>Chris LaPoint (name)</p>	<p>1-Feb-19; Shakopee, MN USA (date of issue & place)</p>
Page 1 of 2	

EU Declaration of Conformity

No: RAD 1117 Rev. B

Rosemount™ Contacting Conductivity Transmitter model 5081-AA-BB-CC-DD

Where		CC is:	
AA is:		20	Infrared remote controller included
C	Contacting Conductivity measurement	21	Infrared remote controller not included
BB is:		DD is:	
HT	Analog/HART communications	60	No approval
FF	Fieldbus communications	67	FM, Intrinsically Safe, Nonincendive, Explosion-proof, Dust Ignition proof
FI	FISCO communications	69	CSA, Intrinsically Safe, Nonincendive, Explosion-proof
		73	ATEX / IECEx, Intrinsically Safe

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)
Baseefa03ATEX0099X – Intrinsically Safe
 Equipment Group II, Category 1 G Ex ia IIC T4 Ga (-20°C ≤ Ta ≤ +65°C)
 Specific Conditions of Use:
 The equipment enclosure may contain light metals. The apparatus must be installed in such a manner as to minimize the risk of impact or friction with other metal surfaces.

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

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

Page 2 of 2



EU Declaration of Conformity

No: RAD 1125 Rev. B

5081-P/A

We,

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

declare under our sole responsibility that the product,

Rosemount™ Amperometric/pH Transmitter model 5081-AA-BB-CC-DD

is 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)

Chris LaPoint

(name)

Vice President of Global Quality

(function)

1-Feb-19, Shakopee, MN USA

(date of issue & place)



EU Declaration of Conformity

No: RAD 1125 Rev. B

Rosemount™ Amperometric/pH Transmitter model 5081-AA-BB-CC-DD

Where			
AA is:		CC is:	
P	pH/ORP Measurement	20	Infrared remote controller included
A	Amperometric (oxygen, ozone, chlorine)	21	Infrared remote controller not include d
BB is:			
HT	Analog/HART communications	DD is:	
FF	Fieldbus communications	60	No approval
FI	FISCO communications	67	FM, Intrinsicall y Safe, NonIncendive, Explosion-proof, Dust Ignition proof
		69	CSA, Intrinsicall y Safe, NonIncendive, Explosion -proof
		73	ATEX / IECEx, Intrinsicall y Safe

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)

Baseefa02ATEX1284X – Intrinsically Safe

Equipment Group II, Category 1 G Ex ia IIC T4 Ga (-20°C ≤ Ta ≤ +65°C)

Special Condition for use:

The equipment enclosure may contain light metals. The apparatus must be installed in such a manner as to minimize the risk of impact or friction with other metal surfaces.

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

ATEX Notified Body for EC Type Examination Certificate & Quality Assurance

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



EU Declaration of Conformity

No: RAD 1126 Rev. B

5081-T

We,

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

declare under our sole responsibility that the product,

Rosemount™ Toroidal Conductivity Transmitter model 5081-AA-BB-CC-DD

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)

Chris LaPoint

(name)

Vice President of Global Quality

(function)

1-Feb-19; Shakopee, MN USA

(date of issue & place)



EU Declaration of Conformity

No: RAD 1126 Rev. B

Rosemount™ Toroidal Conductivity Transmitter model 5081-AA-BB-CC-DD

Where

AA is:

T Toroidal conductivity measurement

CC is:

20

Infrared remote controller included

21

Infrared remote controller not included

BB is:

HT Analog/HART communications

DD is:

60

No approval

FF Fieldbus communications

67

FM Intrinsically Safe, Nonincendive, Explosion-proof, Dust Ignition proof

FI FISCO Communications

69

CSA, Intrinsically Safe, Nonincendive, Explosion -proof

73

ATEX / IECEx, Intrinsically Safe

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)

Baseefa03ATEX0399X – Intrinsically Safe

Equipment Group II, Category 1 G Ex ia IIC T4 Ga (-20°C ≤ Ta ≤ +65°C)

Special Condition for use:

The equipment enclosure may contain light metals. The apparatus must be installed in such a manner as to minimize the risk of impact or friction on with other metal surfaces.

Harmonized Standards:

EN 60079-0:2012+A11:2013

EN 60079-11:2012

ATEX Notified Body for EC Type Examination Certificate & Quality Assurance

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B China RoHS Table

含有China RoHS 管控物质超过最大浓度限值的部件型号列表 5081
List of 5081 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	0	0	0	0	0
壳体组件 Housing Assembly	0	0	0	X	0	0
传感器组件 Sensor Assembly	X	0	0	0	0	0
电池组件 Battery Assembly	X	0	0	0	0	0

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.

0: 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。

0: 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.


部件名称 Part Name	组装备件说明 Spare Parts Descriptions for Assemblies
电子组件 Electronics Assembly	电子线路板组件 Electronic Board Assemblies 液晶显示屏或本地操作界面显示屏 LCD or LOI Display
壳体组件 Housing Assembly	电子外壳 Electrical Housing
传感器组件 Sensor Assembly	传感器模块 Sensor Module



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