

Emerson Wireless 781S Smart Antenna



Safety messages

NOTICE

This guide provides basic guidelines for the Emerson Wireless 781S Smart Antenna. It does not provide instructions for diagnostics, maintenance, service, or troubleshooting. Refer to the [Emerson Wireless 1410S Gateway and 781S Smart Antenna Reference Manual](#) for more information and instructions. The manuals and this guide are available electronically on [Emerson.com](#).

⚠ WARNING

Failure to follow these installation guidelines could result in death or serious injury. Ensure only qualified personnel perform the installation.

⚠ WARNING

Explosions could result in death or serious injury.

Installation of the transmitters in a hazardous environment must be in accordance with the appropriate local, national, and international standards, codes, and practices. Kindly review the Product Certifications section for any restrictions associated with a safe installation.

⚠ WARNING

Electrical shock could cause death or serious injury.

Avoid contact with the leads and terminals. High voltage that may be present on leads can cause electrical shock.

⚠ 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 in 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

This device complies with Part 15 of the Federal Communication Commission (FCC) Rules. Operation is subject to the following conditions:

This device may not cause harmful interference.

This device must accept any interference received, including interference that may cause undesired operation.

This device must be installed to ensure a minimum antenna separation distance of 8 in. (20 cm) from all persons.

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1 Wireless planning

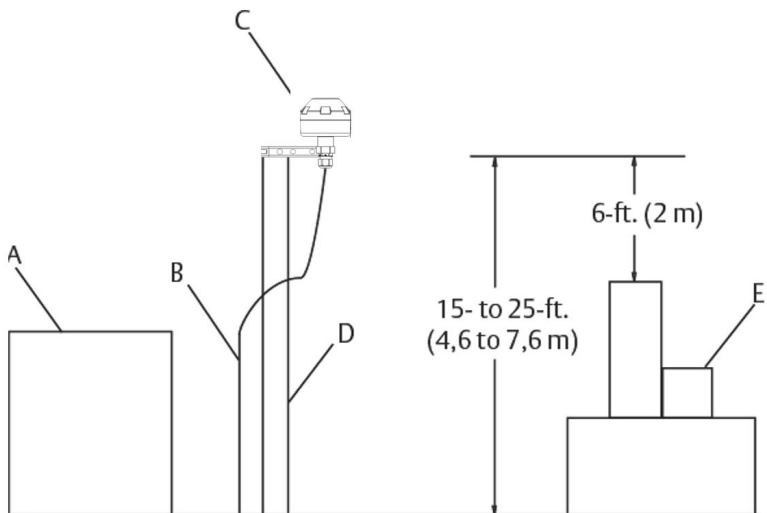
1.1 Power up sequence

For a simpler and faster network installation, first install the Emerson Wireless Smart Antenna and wireless inputs and outputs and make sure they are functioning properly. Next, power up wireless field devices in order of proximity from the antenna, beginning with the closest.

1.2 Antenna location

Mount the antenna in a location that allows convenient access to the host system network (wireless inputs/outputs) as well as the wireless field device network.

Figure 1-1: Antenna mounting location



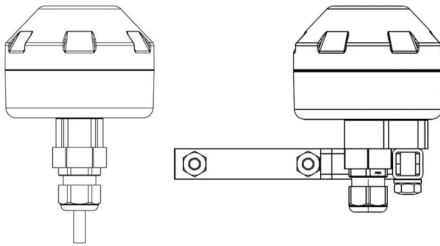
- A. Control room
- B. RS-485 cable
- C. Emerson Wireless 781S Smart Antenna
- D. Mast or pipe
- E. Infrastructure

1.3 Antenna position

Position the Emerson 781S Smart Antenna vertically and approximately 3 ft (1 m) from large structures, buildings, or conductive surfaces to allow for clear communication to other devices.

If installing multiple antennas, it is important that the antennas have 3 ft (1 m) of horizontal separation from one another.

Figure 1-2: Antenna position



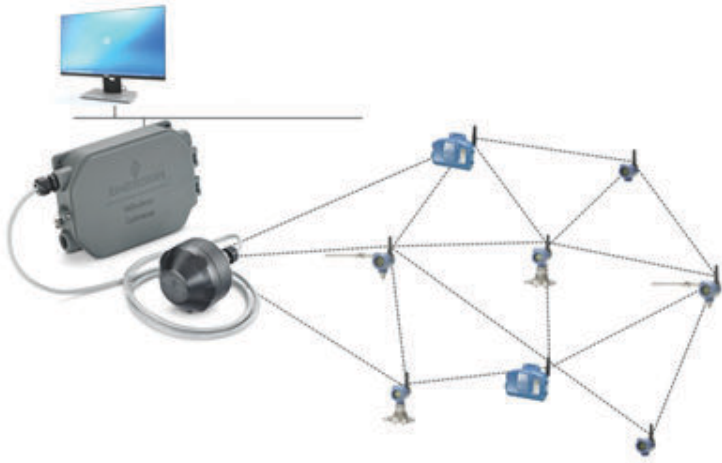
2 Intended use

2.1 System architecture

The smart antenna must be used in conjunction with a network manager or network gateway.

The smart antenna then functions as a translator between the wired network and a wireless field network.

Figure 2-1: Example system architecture



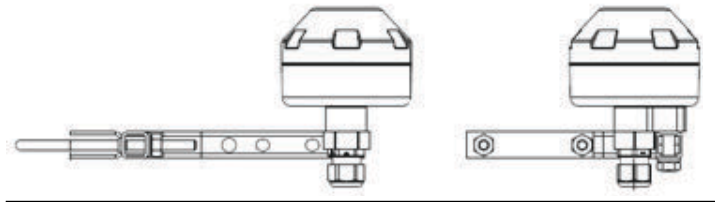
3 Physical installation

3.1 Mount the antenna to a pipe

Procedure

1. Insert U-bolt around 2-in. pipe or mast, through the saddle, through the L-shaped bracket, and through the washer plate.
2. Use a ½-in. socket-head wrench to fasten the nuts to the U-bolt.
3. Secure the antenna to the L-shaped bracket with a 5/16-in. threaded bolt.
4. Use a 5/16-in. wrench to tighten the screw into the housing.

Figure 3-1: Mounting



3.2 Connect to power and data

The Emerson 781S is completely prewired and only needs to be connected and powered on the Gateway end. The housing is permanently sealed on the Emerson 781S.

Prerequisites

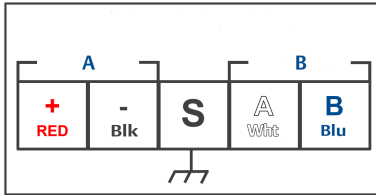
If operating with more than one antenna, it is important the antenna is always connected to the antenna terminal connection 1 port.

Procedure

1. Connect the positive power lead to the “+” power terminal and the negative power lead to the “-” terminal.
2. Connect the data + lead to the “**A (+)**” terminal and the data - lead to the “**B (-)**” terminal.
3. Connect the grounding wire to the Gateway’s shield connection.

- 4. If connecting multiple antennas, repeat this process for terminal connection 2.

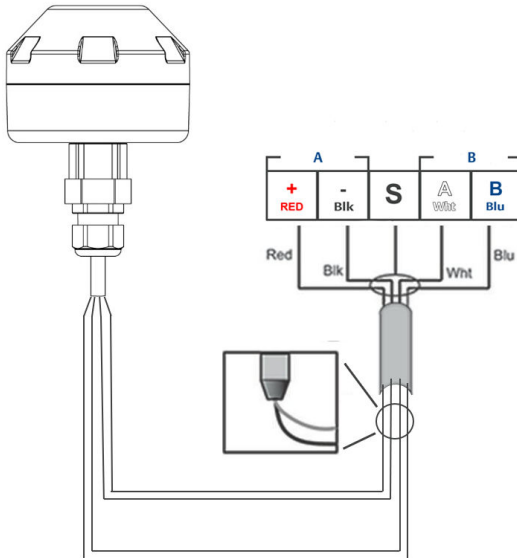
Figure 3-2: Wiring guide



- A. Power
- B. Data

Red	Positive
Blk (Black)	Negative
Wht (White)	RS-485 comm A
Blu (Blue)	RS-485 comm B

Figure 3-3: Emerson Wireless 781S



- A. Power output

B. RS-485 comm

4 Best practices

Twisted shielded pair cable is generally used to wire the serial connection to the Gateway.

Install the Smart Antenna in a central location of the wireless field network so that it has the most direct connections to wireless devices as possible.

5 Verify operation

5.1 Verify antenna's operation through Gateway

The antenna has no exterior lights or LCD displays. Therefore, once it is powered up through the Gateway, you must verify its operation through the Gateway end of the connection.

5.2 Power up sequence

The second and third LEDs in the Emerson 1410S correlate to the first and second terminal connections. These lights should be green when the antenna is connected properly.

5.3 Normal operation

You can assess the operation of the *WirelessHART*[®] Smart Antenna within the Gateway user interface.

To see the connection, allow the link to be seen as a field device. To verify operation, attempt to connect to a device.

6 Product certifications

Rev 2.5

6.1 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](https://www.emerson.com).

6.2 Telecommunications compliance

All wireless devices require certification to ensure they adhere to regulations regarding the use of the RF spectrum. Nearly every country requires this type of product certification.

Emerson is working with governmental agencies around the world to supply fully compliant products and remove the risk of violating country directives or laws governing wireless device usage.

6.3 FCC and IC

This device complies with Part 15 of the FCC Rules. Operation is subject to the following conditions: This device may not cause harmful interference; this device must accept any interference received, including interference that may cause undesired operation. This device must be installed to ensure a minimum antenna separation distance of 20 cm from all persons.

This device complies with Industry Canada license-exempt RSS-247. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Changes or modification to the equipment not expressly approved by Emerson could void the user's authority to operate the equipment.

Cet appareil est conforme à la Partie 15 de la réglementation FCC. Son fonctionnement est soumis aux conditions suivantes: Cet appareil ne doit pas causer d'interférences nuisibles. Cet appareil doit accepter toute interférence reçue, incluant toute interférence pouvant causer un fonctionnement indésirable. Cet appareil doit être installé pour assurer une distance minimum de l'antenne de séparation de 20 cm de toute personne.

Cet appareil est conforme à la norme RSS-247 Industrie Canada exempt de licence. Son fonctionnement est soumis aux deux conditions suivantes: (1) cet appareil ne doit pas provoquer d'interférences et (2) cet appareil doit accepter toute

interférence, y compris les interférences pouvant causer un mauvais fonctionnement du dispositif.

Les changements ou les modifications apportés à l'équipement qui n'est pas expressément approuvé par Emerson pourraient annuler l'autorité de l'utilisateur à utiliser cet équipement.

6.4 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).

6.5 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.

6.6 USA

I5 USA Intrinsic Safety

Certificate 80011679

Markings Class I, II, III Division 1 Groups A, B, C, D, E, F, G T4; Class I, II, III Division 2, Groups A, B, C, D, F, G T4 T4 (-40 °C ≤ T_a ≤ +70 °C); Class I Zone 0, AEx ia IIC T4 Ga; Class I Zone 2, AEx ic IIC T4 Gc

Standards FM 3600: 2011, FM 3610: 2018, FM 3611: 2018, ANSI/UL 60079-0: 2019, ANSI/UL 60079-11: 2014

Warnings/Conditions of Acceptability

1. Installed as per Control drawing 01410-1300 for Hazardous and Non-Hazardous areas.
2. Must be installed with a resistive barrier.
3. The plastic enclosure may constitute a potential electrostatic ignition risk and must not be rubbed or cleaned with a dry cloth.
4. The measured capacitance between the equipment enclosure and metallic conduit adapter is 21 pF. This must be considered only when the Model 781S is integrated into a system where the process connection is not grounded.

6.7 Canada

I6 Canada Intrinsic Safety

Certificate 80011679

Markings Class I, II, III Division 1 Groups A, B, C, D, E, F, G T4; Class I, II, III Division 2, Groups A, B, C, D, F, G T4 T4 (-40 °C ≤ T_a ≤ +70 °C); Ex ia IIC T4 Ga; Ex ic IIC T4 Gc

Standards CAN/CSA C22.2 No 60079-0: 2019, CAN/CSA C22.2 No. 60079-11: 2014, CSA C22.2 No.213 – 2017, CSA C22.2 No. 94.2-15

Warnings

1. Installed as per Control drawing 01410-1300 for Hazardous and Non-Hazardous areas.
2. Must be installed with a resistive barrier.
3. The plastic enclosure may constitute a potential electrostatic ignition risk and must not be rubbed or cleaned with a dry cloth.
4. The measured capacitance between the equipment enclosure and metallic conduit adapter is 21pF. This must be considered only when the Model 781S is integrated into a system where the process connection is not grounded.

6.8 Europe

I1 ATEX/UKEX Intrinsic Safety

Certificate CSAE 21UKEX2710X, CSANe 21ATEX2301X

Markings Ex ia IIC T4 Ga (-40 °C ≤ T_a ≤ +70 °C)

Standards EN IEC 60079-0: 2018, EN 60079-11: 2012

Special Conditions for Safe Use (X):

1. Must be installed with a resistive barrier.
2. The plastic enclosure may constitute a potential electrostatic ignition risk and must not be rubbed or cleaned with a dry cloth.
3. The measured capacitance between the equipment enclosure and metallic conduit adapter is 21pF. This must be considered only when the Model 781S is integrated into a system where the process connection is not grounded.

ATEX/UKEX Intrinsic Safety

Certificate CSAE 21UKEX4711X, CSANe 21ATEX4302X

Markings Ex ic IIC T4 Gc ($-40\text{ °C} \leq T_a \leq +70\text{ °C}$)

Standards EN IEC 60079-0: 2018, EN 60079-11: 2012

Special Conditions for Safe Use (X):

1. Must be installed with a resistive barrier.
2. The plastic enclosure may constitute a potential electrostatic ignition risk and must not be rubbed or cleaned with a dry cloth.
3. The measured capacitance between the equipment enclosure and metallic conduit adapter is 21pF. This must be considered only when the Model 781S is integrated into a system where the process connection is not grounded.

6.9 International

I7 IECEx Intrinsic Safety

Certificate IECEx CSA 21.0052X

Markings Ex ia IIC T4 Ga ($-40\text{ °C} \leq T_a \leq +70\text{ °C}$), Ex ic IIC T4 Gc ($-40\text{ °C} \leq T_a \leq +70\text{ °C}$)

Standards IEC 60079-0: 2017, IEC 60079-11: 2011

Special Conditions for Safe Use (X):

1. Must be installed with a Resistive barrier.
2. The plastic enclosure may constitute a potential electrostatic ignition risk and must not be rubbed or cleaned with a dry cloth.
3. The measured capacitance between the equipment enclosure and metallic conduit adapter is 21pF. This must be considered only when the Model 781S is integrated into a system where the process connection is not grounded.

6.10 Brazil

I2 INMETRO Intrinsic Safety

Certificate UL-BR 20.1568X

Markings Ex ia IIC T4 Ga ($-40\text{ °C} \leq T_a \leq +70\text{ °C}$), Ex ic IIC T4 Gc ($-40\text{ °C} \leq T_a \leq +70\text{ °C}$)

Standards ABNT NBR IEC 60079-0: 2013, ABNT NBR IEC 60079-11: 2013

Special Conditions for Safe Use (X)

See certificate.

6.11 Japan

I4 CML Intrinsic Safety

Certificate CML20JPN2401X

Markings Ex ia IIC T4 Ga (-40 °C ≤ T_a ≤ +70 °C), Ex ic IIC T4 Gc (-40 °C ≤ T_a ≤ +70 °C)

Special Conditions for Safe Use (X)

See certificate.

6.12 Eurasian conformity

IM Intrinsic Safety

Certificate TOO Т-Стандарт ЕАЭС KZ 7500525.01.01.00739

Markings 0Ex ia IIC T4 Ga X, 2Ex ic IIC T4 Gc X; (-40 °C ≤ T_a ≤ +70 °C)

Special Conditions for Safe Use (X)

See certificate.

6.13 China

I3 Nepsi Intrinsic Safety

Certificate GYJ21.1109X

Markings Ex ia IIC T4 Ga, Ex ic IIC T4 Gc (-40 °C ≤ T_a ≤ +70 °C)

Special Conditions for Safe Use (X)

See certificate.

6.14 Korea

IP KTL Intrinsic Safety

Certificate 21-KA4BO-0489X

Markings Ex ia IIC T4 Ga (-40 °C ≤ T_a ≤ +70 °C)

Certificate	21-KA4BO-0490X
Markings	Ex ic IIC T4 Gc (-40 °C ≤ T _a ≤ +70 °C)

Special Conditions for Safe Use (X)

See certificate.


6.15 Combinations

- KD** Combination of I1, I5, and I6
- KL** Combination of I1, I5, I6, and I7



6.16 Declaration of Conformity

Emerson Wireless 781SA Smart Antenna

No: RMD1155 Rev. I



Declaration of Conformity

We, **Rosemount Inc.**
6021 Innovation Blvd
Shakopee, MN 55379
USA

declare under our sole responsibility that the product,

Emerson Wireless 781SA Smart Antenna, WirelessHart

Authorized Representative in Europe:

Emerson S.R.L., company No. J12/88/2006, Emerson 4 street, Parcul Industrial Tatarom II, Cluj-Napoca 400638, Romania

Regulatory Compliance Shared Services Department
 Email: europaeproductcompliance@emerson.com Phone: +40 374 132 035

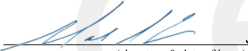
For product compliance destination sales questions in Great Britain, contact Authorized Representative:

Emerson Process Management Limited at ukproductcompliance@emerson.com or +44 11 6282 23 64, Regulatory Compliance Department.

Emerson Process Management Limited, company No 00671801, Meridian East, Leicester LE19 1UX, United Kingdom

to which this declaration relates, is in conformity with:

- the relevant statutory requirements of Great Britain, including the latest amendments.
- the provisions of the European Union Directives, including the latest amendments.


July 24, 2023
Mark Lee
Vice President, Quality
Boulder, CO, USA

(signature & date of issue)
(name)
(function)
(place of issue)

ATEX Notified Body for EU Type Examination Certificate:
CSA Group Netherlands B.V. [Notified Body Number: 2813]
 Utrechtseweg 310
 6812 AR ARNHEM
 Netherlands

ATEX Notified Body for Quality Assurance:
SGS Fimko Oy [Notified Body Number: 0598]
 Takamotie 8
 00380 Helsinki
 Finland

UK Conformity Assessment Body for UK Type Examination Certificate:
CSA Group Testing UK Ltd [Approved Body Number: 0518]
 Unit 6 Hawarden Industrial Park, Hawarden, CH5 3US
 United Kingdom

UK Approved Body for Quality Assurance:
SGS Baseefa Ltd. [Approved Body Number: 1180]
 Rockhead Business Park, Staden Lane
 Buxton, Derbyshire, SK17 8RZ
 United Kingdom

No: RMD1155 Rev. I



Declaration of Conformity /

EMC Directive (2014/30/EU)

Harmonized Standards:
EN 61326-1:2013

RoHS Directive (2011/65/EU) Amended 2015/863

Harmonized Standards:
EN IEC 63000:2018

Radio Equipment Directive (RED) (2014/53/EU)

Harmonized Standards:
EN 300 328 V2.2.2:2019
EN 301 489-1 V2.2.3
EN 301 489-17 V3.2.4
EN 61010-1:2010/A1:2019

ATEX Directive (2014/34/EU)

CSANE 21ATEX2301X – Wireless Field Link
Equipment Group II, [Category 1G
Ex ia IIC T4 Ga
(-40°C ≤ Ta ≤ 70°C)]

Harmonized Standards:
EN IEC 60079-0:2018
EN 60079-11:2012

CSANE 21ATEX4302X – Wireless Field Link
Equipment Group II, [Category 3G
Ex ic IIC T4 Gc
(-40°C ≤ Ta ≤ 70°C)]

Harmonized Standards:
EN IEC 60079-0:2018
EN 60079-11:2012

Electromagnetic Compatibility Regulations 2016 (S.I. 2016/1091)

Designated Standards:
EN 61326-1:2013

The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (S.I. 2012/3032)

Designated Standards:
EN IEC 63000:2018

Radio Equipment Regulations 2017 (S.I. 2017/1206)

Designated Standards:
EN 300 328 V2.2.2:2019
EN 301 489-1 V2.2.3
EN 301 489-17 V3.2.4
EN 61010-1:2010/A1:2019

Equipment and Protective Systems Intended for use in Potentially Explosive Atmospheres Regulations 2016 (S.I. 2016/1107)




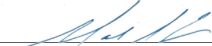
CSAE 21UKEX2710X – Wireless Field Link
Equipment Group II, [Category 1G
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(-40°C ≤ Ta ≤ 70°C)]

Designated Standards:
EN IEC 60079-0:2018
EN 60079-11:2012

CSAE 21UKEX4711X – Wireless Field Link
Equipment Group II, [Category 3G
Ex ic IIC T4 Gc
(-40°C ≤ Ta ≤ 70°C)]

Designated Standards:
EN IEC 60079-0:2018
EN 60079-11:2012

Emerson Wireless 781SC Smart Antenna

	<h2>Declaration of Conformity</h2>	No: RMD1156 Rev. H  / 
<p>We, Rosemount Inc. 6021 Innovation Blvd Shakopee, MN 55379 USA</p>		
<p>declare under our sole responsibility that the product,</p>		
<h3>Rosemount™ Wireless 781SC Smart Antenna, WirelessHart</h3>		
<p>Authorized Representative in Europe:</p> <p>Emerson S.R.L., company No. J12/88/2006, Emerson 4 street, Parcul Industrial Tetarom II, Cluj-Napoca 400638, Romania</p> <p>Regulatory Compliance Shared Services Department Email: europaeproductcompliance@emerson.com Phone: +40 374 132 035</p>	<p>For product compliance destination sales questions in Great Britain, contact Authorized Representative:</p> <p>Emerson Process Management Limited at ukproductcompliance@emerson.com or +44 11 6282 23 64, Regulatory Compliance Department.</p> <p>Emerson Process Management Limited, company No 00671801, Meridian East, Leicester LE19 1UX, United Kingdom</p>	
<p>to which this declaration relates, is in conformity with:</p>		
<ol style="list-style-type: none"> 1) the relevant statutory requirements of Great Britain, including the latest amendments 2) the provisions of the European Union Directives, including the latest amendments 		
	July 24, 2023	Mark Lee Vice President, Quality Boulder, CO, USA
(signature & date of issue)		(name) (function)(place of issue)
<p>ATEX Notified Body for EU Type Examination Certificate: CSA Group Netherlands B.V. [Notified Body Number: 2813] Utrechtseweg 310 (B42) 6812AR ARNHEM Netherlands</p> <p>ATEX Notified Body for Quality Assurance: SGS Fimko Oy [Notified Body Number: 0598] Takomitie 9 00380 Helsinki Country: Finland</p>	<p>UK Conformity Assessment Body for UK Type Examination Certificate: CSA Group Testing UK Ltd [Notified Body Number: 0518] Unit 6 Hawarden Industrial Park, Hawarden, CH5 3US United Kingdom</p> <p>UK Notified Body for Quality Assurance: SGS Baseefa Ltd. [Notified Body Number: 1180] Rockhead Business Park, Staden Lane Buxton, Derbyshire, SK17 9RZ United Kingdom</p>	

No: RMD1156 Rev. H



Declaration of Conformity /

EMC Directive (2014/30/EU)

Harmonized Standards:
EN 61326-1:2013

RoHS Directive (2011/65/EU) Amended 2015/863

Harmonized Standards:
IEC 63000:2018

Radio Equipment Directive (RED) (2014/53/EU)

Harmonized Standards:
EN 300 328 V2.2.2:2019
EN 301 489-17 V3.1.1:2017
IEC 61010-1:2010, AMD1:2016
IEC 60529:2001

ATEX Directive (2014/34/EU)

CSANE 21ATEX2301X – Wireless Field Link
Equipment Group II, [Category 1G]
Ex ia IIC T4 Ga
(-40°C ≤ Ta ≤ 70°C)]

Harmonized Standards:
EN IEC 60079-0:2018
EN 60079-11:2012

CSANE 21ATEX4302X – Wireless Field Link
Equipment Group II, [Category 3G]
Ex ic IIC T4 Gc
(-40°C ≤ Ta ≤ 70°C)]

Harmonized Standards:
EN IEC 60079-0:2018
EN 60079-11:2012

Electromagnetic Compatibility Regulations 2016 (S.I. 2016/1091)

Designated Standards:
EN 61326-1:2013

The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (S.I. 2012/3032)

Designated Standards:
IEC 63000:2018

Radio Equipment Regulations 2017 (S.I. 2017/1206)

Designated Standards:
EN 300 328 V2.2.2:2019
EN 301 489-17 V3.1.1:2017
IEC 61010-1:2010, AMD1:2016
IEC 60529:2001

Equipment and Protective Systems Intended for use in Potentially Explosive Atmospheres Regulations 2016 (S.I. 2016/1107)

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(-40°C ≤ Ta ≤ 70°C)]

Designated Standards:
EN IEC 60079-0:2018
EN 60079-11:2012

CSAE 21UKEX4711X – Wireless Field Link
Equipment Group II, [Category 3G]
Ex ic IIC T4 Gc
(-40°C ≤ Ta ≤ 70°C)]

Designated Standards:
EN IEC 60079-0:2018
EN 60079-11:2012

6.17 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 781S
List of 781S 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	O	O	O	O	O	O
壳体组件 Housing Assembly	O	O	O	O	O	O

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.

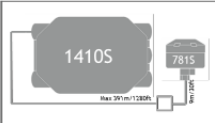
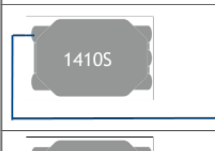
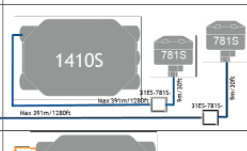
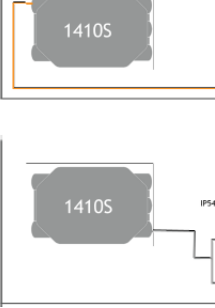
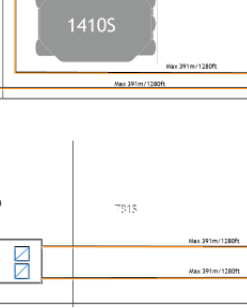
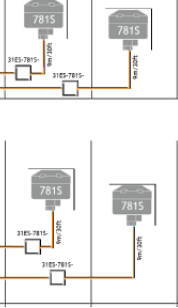

X: 意为在该部件使用的所有均质材料里，至少有一类均质材料中该有害物质含量高于GB/T 26572所规定的限量要求。

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.

7 Reference data

For information on product specs, dimensional drawings, ordering information or the complete reference manual, see [Emerson.com](https://www.emerson.com).

Figure 7-1: Hazardous Location Installation

Safe Area	Zone 2/Cl1 Div 2	Zone 1	Zone 0/Cl1 Div 1	Option N: Ex No intrinsically safe (IS) outputs, for installation in safe areas only
				Option B: Ex [ic] IS output for 781 installation in Zone 2/Cl1 Div 2
				Option A: Ex ex ec [ia] IS output for 781 installation in Zone 0, 1+2 / Cl1 Div 1+2 (31ES-781S in Zone 1 or 2)
				Option N: External IS outputs (24 Vdc and RS-485) for installation of 1410S in safe areas only; 781S may be installed in Zone 2, 1, or 0 (Cl1 Div 2/1)



Quick Start Guide
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For more information: [Emerson.com](https://www.emerson.com)

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