Rosemount™ IK220 Installation Kit for Rosemount Wireless Corrosion Transmitters

including Rosemount CC21 Commisioning Communicator

IEC CE

- Intrinsically safe associated apparatus
- Compatible with these Rosemount Wireless Corrosion Sensors: WT210, ET210, ET310, ET310C, ET410

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Rosemount IK220 Installation Kit

Transmitter compatibility

- Rosemount Wireless WT210 Corrosion Transmitter

- Rosemount Wireless ET210 Corrosion Transmitter

- Rosemount Wireless ET310 Corrosion Transmitter

- Rosemount Wireless ET310C Corrosion Transmitter

- Rosemount Wireless ET410 Corrosion Transmitter

Ordering information

The Rosemount IK220 Installation Kit is only available as a spare part at this time. The spare part number depends on the approval rating as seen in the product description.

Spare part number	Product description
IK220-2000-0101	IK220US (for use with SGSus-c approved sensors)
IK220-2000-0102	IK220EU (for use with ATEX, IECEx, IA approved sensors)
IK220-2000-0103	IK220RU (for use with EAC Ex approved sensors)
IK220-2000-0104	IK220JP (for use with Japan intrinsic safety approved sensors)
IK220-2000-0105	IK220BR (for use with Brazil intrinsic safety approved sensors)
IK220-2000-0106	IK220KR (for use with Korea intrinsic safety approved sensors)
IK220-2000-0107	IK220CN (for use with China intrinsic safety approved sensors)
IK220-2000-0201	IK220US (Without PC) (for use with SGSus-c approved sensors)
IK220-2000-0202	IK220EU (Without PC) (for use with ATEX, IECEx, IA approved sensors)
IK220-2000-0203	IK220RU (Without PC) (for use with EAC Ex approved sensors)
IK220-2000-0204	IK220JP (Without PC) (for use with Japan intrinsic safety approved sensors)
IK220-2000-0205	IK220BR (Without PC) (for use with Brazil intrinsic safety approved sensors)
IK220-2000-0206	IK220KR (Without PC) (for use with Korea intrinsic safety approved sensors)
IK220-2000-0207	IK220CN (Without PC) (for use with China intrinsic safety approved sensors)

The Rosemount CC21 Commissioning Communicator is included in the IK220 installation kit. If the CC21 requires replacement, it can also be ordered separately.

Contents

Spare part number	Product description
0CC21-5000-0001	CC21US (for use with SGSus-c approved sensors)
0CC21-5000-0002	CC21EU (for use with ATEX, IECEx, IA approved sensors)
0CC21-5000-0003	CC21RU (for use with EAC Ex approved sensors)
0CC21-5000-0004	CC21JP (for use with Japan intrinsic safety approved sensors)
0CC21-5000-0005	CC21BR (for use with Brazil intrinsic safety approved sensors)
0CC21-5000-0006	CC21KR (for use with Korea intrinsic safety approved sensors)
0CC21-5000-0007	CC21CN (for use with China intrinsic safety approved sensors)

Clamp installation tools are included in the IK220 installation kit. If the CC21 requires replacement, it can also be oredered separately.

Spare part number	Product description
PERMA-2200-0001	Tools for WT210 clamp installation

Specifications Rosemount CC21 Commissioning Communicator

Functional specifications

Enclosure rating

IP67 (when mated with the transmitter)

Physical specifications

Material selection

Emerson provides a variety of Rosemount products with various product options and configurations including materials of construction that can be expected to perform well in a wide range of applications. The Rosemount product information presented is intended as a guide for the purchaser to make an appropriate selection for the application. It is the purchaser's sole responsibility to make a careful analysis of all process parameters (such as all chemical components, temperature, pressure, flow rate, abrasives, contaminants, etc.), when specifying product materials, options, and components for the particular application. Emerson is not in a position to evaluate or guarantee the compatibility of the process fluid or other process parameters with the product options, configuration, or materials of construction selected.

Input voltage

5 V ± 0.25 V (via USB)

Weight

1.08 lb. (490 g)

Materials of construction

Housings

PC/PBT

Potting compound

Epoxy

O-ring seal

Silicone rubber

USB cable

PVC cable with polyester overbraid

Performance specifications

Operating temperature (device)

–40 °F to 167 °F (–40 °C to 75 °C)

Maximum operating temperature (cable)

302 °F (150 °C)

Storage

The Rosemount CC21 commissioning communicator is typically shipped as part of the Rosemount IK220 installation kit. The equipment should be stored in dry location, and at a temperature within the stated operating temperature.

Specifications Tablet PC

Operating system	
Microprocessor	Intel® Core™ i5-8250U Processor
Operating system	Windows®10 Pro 64 bit

Physical	
Weight	Approximately 2.65 lb. (1.2 kg)
Dimensions	11.8 in. x 7.6 in. x 0.8 in. (299 mm x 192 mm x 20 mm)
Display	11.6 in. FHD (1920 x 1080)

Power	
Battery	Li-ion, 11.1 V, 7800 mAh
Operating time	Up to 15 hours
Battery charger	AC Adapter, 100–240 V, 50–60 Hz, 65 W

Connections	
USB	USB 3.1 (type A) x 2
Battery charger	DC-in jack x 1

Environmental	
Usage	–4 °F to 140 °F (–20 °C to 60 °C)
Storage	–40 °F to 160 °F (–40 °C to 71 °C)
Humidity	5% to 95%
Rating	IP65 certified

Storage

The Tablet PC is typically shipped as part of the Rosemount IK220 installation kit. The equipment should be stored in dry location, and at a temperature within the stated operating temperature.

Installation software

Tablet PC's come with Rosemount Permasense Installation Tool software pre-loaded. This is a proprietary software which allows the commissioning of Rosemount Permasense Wireless Corrosion Transmitters.

Installation tools for mechanical transmitter installation

The tools listed below are included in the IK220 installation kit:

Tool description	Specifications	Transmitter installation
Hex key screwdriver	2.5 mm	All, BP20E
Rosemount BP20E tester	Use only with BP20E	All, BP20E
Torque wrench	3/8-in. Square drive, 1.47–17.70 lb./ft. (2–24 N-m)	WT210, ET310, ET410
Extension bar	3/8-in. Square drive, 7.9 in. (200 mm)	WT210, ET310, ET410
Deep socket	3/8-in. Square drive, 9/16-in.	WT210
Deep socket	3/8-in. Square drive, 13 mm	WT210
Stud spacer	S/S304	WT210
Wire brush	Brass wire brush 25 mm	WT210 (Surface preparation)
Flat file	Flat file 10-in. (250 mm)	WT210 (Surface preparation)
Torque wrench	3/8-in. Square drive, 5–708 lb./ft. (10–80 N-m)	WT210 on 200 Series Clamps
Socket adaptor	3/8-in. to ½-in.	WT210 on 200 Series Clamps
Socket	½-in. square drive, 24 mm	WT210 on 200 Series Clamps
Spanner	Combination 24 mm	WT210 on 200 Series Clamps
Anti-seize	Loctite 8009 (brush top) 454 g	WT210 on 200 Series Clamps
Installation handle	For universal mount	WT210 on universal mount
Banding tool	Smart band 19 mm	ET210, ET310C
T-handle nut driver	Nut driver 8 mm	ET310, ET410
Tins snips	Aviation snips 240 mm up to 1.2 mm thickness	ET310, ET410

Spare parts for transmitter installation

The spare parts listed below are included in the IK220 installation kit:

Spare	Spare specification	Supplied quantity	Transmitter spare
Lanyard	2 m loop S/S	5	All transmitters
Washer	M8, Nord Lock, S/S	20	WT20
Buckle	Smart Band, 19 mm	10	ET210
Strapping	Smart Band, 19 mm	3.5 m	ET210
Sensor shoe	Diameters > 4 in.	5	ET210
Sensor shoe	Diameters 2 in. – 4 in.	5	ET210
Tensioner	ET310	1	ET310
Tensioner	ET410	1	ET410
Strapping	A4 Stainless Steel	3.5 m	ET310, ET410

200 Series Clamp installation tools

The tools listed below are included in the IK220 installation kit, but can be purchased separately.

Tool description	Specification	Transmitter installation
Torque wrench	3/8-in. Square drive, 5–708 lb./ft. (10–80 N-m)	200 Series Clamps
Socket adaptor	3/8-in. to ½-in.	200 Series Clamps
Socket	½-in. Square drive, 24 mm	200 Series Clamps
Spanner	Combination 24 mm	200 Series Clamps

Product certifications

For Rosemount IK220 product certifications, see the [Rosemount IK220 Installation Kit for Rosemount Wireless Corrosion Transmitters Quick Start Guide](#).

For more information: **Emerson.com/global**

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