

# Rosemount™ BP20E Power Module for Wireless Corrosion Transmitters



- Intrinsically safe and replaceable in the hazardous zone
- Compatible with these Rosemount™ Wireless Corrosion Sensors: WT100, WT210, ET210, ET310, ET310C, and ET410
- Backed by proven experience in wireless field instrumentation and expert technical support from Emerson

# Rosemount BP20E Power Module

**Hazardous location compatibility (consult factory if requested certificate is not listed)**

- Permasense WT100 Wireless Corrosion Transmitter
- Rosemount Wireless ET210 Corrosion Transmitter
- Rosemount Wireless ET310 Corrosion Transmitter
- Rosemount Wireless ET310C Corrosion Transmitter
- Rosemount Wireless ET410 Corrosion Transmitter
- Rosemount Wireless WT210 Corrosion Transmitter

**Intrinsically safe power solution**

- Rosemount BP20E Power Modules can be changed in hazardous areas
- No need to remove transmitter from process to change power module

**Predictable life**

- Life expectancies specified under installed conditions
- Up to nine-year life depending on update rate

**Easy maintenance**

- Keyed connections for easy replacement and fail-safe connection

**Safe, robust design**

- No special training required
- Designed for harsh environments

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## Ordering information

The Rosemount BP20E Power Module 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
BP20E-5100-0001	BP20E Power Module, SGSus-c
BP20E-5100-0002	BP20E Power Module, ATEX, IECEx
BP20E-5100-0003	BP20E Power Module, EAC Ex
BP20E-5100-0004	BP20E Power Module, Japan
BP20E-5100-0005	BP20E Power Module, Brazil
BP20E-5100-0006	BP20E Power Module, Korea
BP20E-5100-0007	BP20E Power Module, China

## Specifications

### Functional specifications

#### Life expectancy

Up to nine years when utilizing two measurements per day.

#### Enclosure ratings

IP67

### 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.

#### Electrical connections/power module

Rosemount BP20E Power Module was designed for use with various Rosemount Wireless Corrosion Transmitters listed in the section [Rosemount BP20E Power Module](#) above.

#### Nominal voltage

7.2 V

#### Nominal capacity

19 Ah

**Weight**

0.82 lb. (370 g)

**Materials of construction****Primary cell**

Lithium-thionyl chloride

**Housing**

PC/PBT

**Potting compound**

Polyurethane

**Retaining bolts**

A4 Stainless Steel

**O-ring seal**

Silicone rubber

## Performance specifications

**Temperature limits**

Operating ambient temperature limits: -40 to 167 °F (-40 to 75 °C)

**Storage**

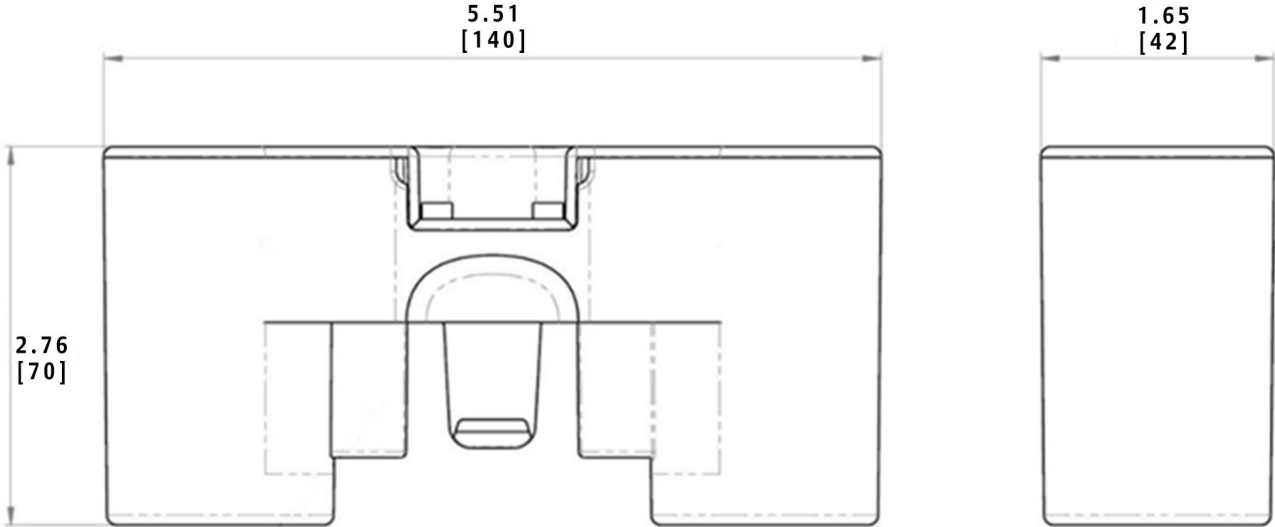
Power modules will self-discharge in storage, causing a reduction in operating capacity. Self-discharge increases with storage temperature. Power modules should be stored in a cool, dry area and away from open flames.

## Product certifications

Refer to [ET210 Corrosion Transmitter Quick Start Guide](#) for information concerning product certification.

# Dimensional drawings

Figure 1: Rosemount BP20E Power Module



**Note**  
Dimensions are in inches (mm).



For more information: [Emerson.com/global](https://emerson.com/global)

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