

Ranger Pro Gateway Warning, Special Conditions and Additional Information

Safety Note

Cordant™

158M1429 Rev. A



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Bently Nevada, a Baker Hughes Company
1631 Bently Parkway South, Minden, Nevada USA
89423

<https://bntechsupport.com>

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1.1 Purpose

This document conveys the warnings, special conditions, and additional information for the safe use of the Bently Nevada™ Ranger™ Pro Gateway operated in hazardous locations.

Refer to Ranger Pro Gateway User Guide document (158M1430) for general instructions and additional information.

1.2 Conditions of Safe Use

The following conditions of safe use apply:

- The Power over Ethernet function may not be utilized in a hazardous atmosphere. Only a suitable DC power supply may be utilized to power the equipment in a hazardous area.
- For outdoor installation, the connector guard must be installed to protect against UV exposure.

1.3 Additional Warnings

The following warnings apply in addition to any marking on the equipment.

**WARNING**

**POTENTIAL ELECTROSTATIC CHARGING HAZARD**

The equipment shall only be cleaned with a damp cloth when deployed in a hazardous area.

**WARNING**

**DO NOT CONNECT OR DISCONNECT WHEN ENERGIZED.**

1.4 Avertissements supplémentaires

Les avertissements suivants doivent être appliqué en complément des autres instructions indiquées sur l'équipement.

**AVERTISSEMENT**

**RISQUE - DANGER POTENTIEL DE CHARGE ÉLECTROSTATIQUE.**

**AVERTISSEMENT**

**NE PAS CONNECTER OU DÉCONNECTER UNE FOIS SOUS TENSION.**

1.5 Environmental Ratings

Operating Environment	Indoor or Outdoor use. Dry or Wet locations.
Temperature	$-40^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$
Ingress Protection	IP66/67
Enclosure Type	Type 4X
Relative Humidity	5 to 95 % (noncondensing)
Altitude	$\leq 3000\text{m}$
Pollution Degree	4

1.6 Electrical Ratings

Rated Voltage	20–57 Vdc
Rated Power	≤ 4W
Overvoltage	Overvoltage Category II

1.7 Approved Battery

Only use the Murata CR2032X 220mAH Manganese Dioxide Lithium Coin Battery approved for use with the equipment. The use of any other battery or cell will void the safety rating and present a significant safety hazard.

1.8 Hazardous Location Certification Markings

The Bently Nevada™ Ranger™ Pro Gateway has been tested and certified for the following markings as applicable:

North America (US and Canada)	Ex ec IIC T4 Gc Ex tc IIIC T135°C Dc Class I, Zone 2, AEx ec IIC T4 Gc Zone 22, AEx tc IIIB T135°C Dc Class I, Div. 2, Grp ABCD T4 Class II, Div. 2, Grp FG T135°C –40°C ≤ Ta ≤ +70°C
IECEx	Ex ec IIC T4 Gc Ex tc IIIC T135°C Dc –40°C ≤ Ta ≤ +70°C IECEx ICS 21.0015X
ATEX (EU)	II 3G II 3D Ex ec IIC T4 Gc Ex tc IIIC T135°C Dc 40°C ≤ Ta ≤ +70°C QPS21ATEX7003X  