Description

The Communication Gateway Module (CGW) provides information to external hosts including measurements, alarms, statuses, and configuration information using standard industrial protocols. The CGW is designed to be used as part of a protection loop.

Through the Communication Gateway module, the system can acquire process data from external control systems, human interfaces, and data historians. The data can also be passed through to System 1. The Communication Gateway module occupies a single slot.

There are two versions of the CGW module:

• **Serial** – RS-485 port supporting Modbus protocol*

• **Ethernet** – Two RJ-45 ethernet ports supporting Modbus and EGD* protocols

The module OK LEDs indicate when the module is functioning properly, and the LINK LED indicates when the module is communicating to the rest of the system.

* Features not available in first release.
## Communications Gateway

<table>
<thead>
<tr>
<th>Data Communications</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>2 ethernet ports - utility or rear side</td>
<td>Independent Ethernet ports 1000/100/10 Base-T Auto-negotiation</td>
</tr>
<tr>
<td>Connector</td>
<td>RJ-45</td>
</tr>
<tr>
<td>Cable Length</td>
<td>100 meters (328 feet) max</td>
</tr>
</tbody>
</table>
Compliance and Certifications

FCC
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

EMC
European Community Directive:
EMC Directive 2014/30/EU
Standards:
EN 61000-6-2; Immunity for Industrial Environments
EN 61000-6-4; Emissions for Industrial Environments

Electrical Safety
European Community Directive:
LV Directive 2014/35/EU
Standards:
EN 61010-1;
EN 61010-2-201;

RoHS
European Community Directive:
RoHS Directive 2011/65/EU

Cyber Security
Designed to meet IEC 62443

Maritime*
ABS Rules for Condition of Classification, Part 1
- Steel Vessels Rules
- Offshore Units and Structures

Functional Safety*
SIL 2

* Approvals pending

Hazardous Area Approvals

CSA/NRTL/C
Class I, Zone 2: AEx/Ex ec nC IIC T4 Gc;
Class I, Zone 2: AEx/Ex nA nC IIC T4 Gc;
Class I, Division 2, Groups A, B, C, D T4;
Class I, Division 2, Groups A, B, C, D T4 (N.I.);
T4 @ Ta= -30°C to +65°C (-22°F to +149°F)

ATEX/IECEx
Ex ec nC IIC T4 Gc
Ex nA nC IIC T4 Gc
T4 @ Ta= -30°C to +65°C (-22°F to +149°F)
Ordering Information


Communications Gateway Module

<table>
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<tr>
<th>Ordering Option</th>
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<tr>
<td>60R/CGW01-AAA-BB • RJ-45 Ethernet Comm Gateway</td>
<td></td>
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</tbody>
</table>

AAA – Hazardous Area Certifications

| 00 | No Hazardous Area |
| 01 | CSA/NRTL/C (Class I, Div 2) |
| 02 | Multi (CSA, ATEX, IECEx) |
| XXX | Country Specific Approvals |

BB – SIL Level

| 00 | No SIL |