

## Installation Identity and Scope

Pepperl+Fuchs RSD-GW3-Ex2.DPE is a PROFIBUS DP V1 gateway for the intrinsically safe Remote I/O system. It links the internal backplane and field modules to a PROFIBUS host while supporting HART communication and documented media redundancy.

| INSTALLATION IDENTITY | REQUIRED VALUE   |
|-----------------------|------------------|
| Complete model        | RSD-GW3-Ex2.DPE  |
| Manufacturer          | Pepperl+Fuchs    |
| Hardware role         | PROFIBUS Gateway |
| System family         | Remote I/O       |

### Controlled engineering copy

Confirm the exact RSD-GW3-Ex2.DPE marking, approved Ex power supply, backplane modules, PROFIBUS address, line termination, grounding and enclosure protection before commissioning.

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## Pre-Installation Plan

| NO. | REQUIRED ACTION                                                                    |
|-----|------------------------------------------------------------------------------------|
| 1   | Verify the complete RSD-GW3-Ex2.DPE marking and Ex approval.                       |
| 2   | Use only the documented RSD2-PSD2-Ex4.34 or RSA6-PSD-Ex4.34 supply arrangement.    |
| 3   | Confirm the hazardous-area classification and enclosure protection.                |
| 4   | Record the PROFIBUS address and termination-switch positions.                      |
| 5   | Verify every installed backplane and I/O module against the approved design.       |
| 6   | Preserve fieldbus shielding, grounding and intrinsically safe separation.          |
| 7   | Follow the manufacturer hot-swap conditions for Zone 1.                            |
| 8   | Complete host communication, diagnostics, redundancy and I/O tests before release. |

## Before Energization

| CONTROL       | REQUIRED RECORD                                            |
|---------------|------------------------------------------------------------|
| Identity      | Complete RSD-GW3-Ex2.DPE marking and hardware role         |
| Connections   | Approved power, grounding and protocol interfaces          |
| Configuration | Controlled backup, addressing and protocol files           |
| Test plan     | Defined acceptance values and controlled restart authority |

### Release hold point

Do not disturb the installed device until exact marking, interfaces, companion hardware and configured function are documented.

## Wiring, Network and Configuration Checks

| CHECK                   | MODEL-SPECIFIC REQUIREMENT    |
|-------------------------|-------------------------------|
| System                  | Intrinsically safe Remote I/O |
| Installation areas      | Zones 1, 2 and 22             |
| Fieldbus protection     | EEx ib IIC                    |
| PROFIBUS rate           | 9.6 to 1500 kbit/s            |
| Address range           | 1 to 99 by switch             |
| Gateways on IS bus      | Up to 10                      |
| I/O modules per gateway | Up to 8                       |
| Internal cycle time     | 1.6 ms                        |

### Configuration boundary

Confirm the exact RSD-GW3-Ex2.DPE marking, approved Ex power supply, backplane modules, PROFIBUS address, line termination, grounding and enclosure protection before commissioning.

## Expected Technical Values

| PARAMETER         | VALUE                      |
|-------------------|----------------------------|
| Rated supply      | 8.88 to 9.5 V              |
| Power consumption | 8.5 W                      |
| Status indication | PWR, INT, EXT and RED LEDs |
| Media redundancy  | PROFIBUS supported         |

## Additional Official Data

| PARAMETER             | VALUE                                           |
|-----------------------|-------------------------------------------------|
| Configuration         | PACTware                                        |
| Hot swap              | Permitted in Zone 1 under documented conditions |
| Degree of protection  | IP20; separate enclosure required               |
| Operating temperature | -20 to 70 degrees C                             |

## Commissioning and Acceptance

| TEST             | ACCEPTANCE CONDITION                                                       |
|------------------|----------------------------------------------------------------------------|
| Identity         | Manufacturer and complete RSD-GW3-Ex2.DPE marking match the record.        |
| Power            | Measured supply agrees with the documented operating requirement.          |
| Interface        | Connectors, addressing and network parameters match the approved project.  |
| Configuration    | Protocol files, framing and mapped data areas match the controlled backup. |
| Diagnostics      | No unexplained status, counter or communication fault remains.             |
| Functional proof | Controlled bidirectional data transfer completes successfully.             |
| Release          | Final values and test results are retained with restart approval.          |

## Questions to Resolve

| QUESTION                                           | ENGINEERING ANSWER                                                                        |
|----------------------------------------------------|-------------------------------------------------------------------------------------------|
| What is Pepperl+Fuchs RSD-GW3-Ex2.DPE?             | RSD-GW3-Ex2.DPE is a PROFIBUS DP V1 gateway for the intrinsically safe Remote I/O system. |
| Which zones support Pepperl+Fuchs RSD-GW3-Ex2.DPE? | The official data sheet lists Zones 1, 2 and 22.                                          |

## Related Products

| MODEL                             | APTER POWER PAGE                                    |
|-----------------------------------|-----------------------------------------------------|
| Siemens<br>6SE7090-0XX84-0FF5     | <a href="#">View Siemens 6SE7090-0XX84-0FF5</a>     |
| ProSoft 5201-DFNT-EGD             | <a href="#">View ProSoft 5201-DFNT-EGD</a>          |
| ProSoft PLX31-EIP-MBS             | <a href="#">View ProSoft PLX31-EIP-MBS</a>          |
| Bently Nevada<br>3500/92-04-01-01 | <a href="#">View Bently Nevada 3500/92-04-01-01</a> |

## Source, Related Products and Release

| MODEL                         | APTER POWER PAGE                                |
|-------------------------------|-------------------------------------------------|
| Siemens 6EW1810-3AA           | <a href="#">View Siemens 6EW1810-3AA</a>        |
| Siemens 6EW1860-3AA           | <a href="#">View Siemens 6EW1860-3AA</a>        |
| Siemens 6GK1543-1AA01         | <a href="#">View Siemens 6GK1543-1AA01</a>      |
| Siemens<br>6ES7414-1XG02-0AB0 | <a href="#">View Siemens 6ES7414-1XG02-0AB0</a> |

### MANUFACTURER SOURCE RECORDS

1. Pepperl+Fuchs RSD-GW3-Ex2.DPE Product Data Sheet, document 122622\_ENG
2. Pepperl+Fuchs Remote I/O engineering requirements for the RSD gateway family

## Controlled Release Summary

| RELEASE ITEM     | REQUIRED EVIDENCE                                   |
|------------------|-----------------------------------------------------|
| Identity         | RSD-GW3-Ex2.DPE recorded                            |
| Interface        | Connections and companion hardware verified         |
| Configuration    | Installed values agree with approved record         |
| Functional proof | Controlled test completed without unexplained fault |

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