

RSD-GW3-Ex2.DPE

PROFIBUS Gateway

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.

IDENTITY	VERIFIED VALUE
Manufacturer	Pepperl+Fuchs
Complete model	RSD-GW3-Ex2.DPE
Product role	PROFIBUS Gateway
System family	Remote I/O

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

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RSD-GW3-Ex2.DPE

Product Overview

System function

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.

PROFIBUS DP V1 link

Connects the intrinsically safe remote I/O station to the configured PROFIBUS host.

HART signal handling

Transfers documented HART information through the gateway architecture.

Media redundancy

Supports the documented redundant PROFIBUS connection arrangement.

Zone 1 hot swap

Allows controlled module exchange under the manufacturer conditions for Zone 1.

Technical note

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

Technical Data and Acceptance

PARAMETER	VERIFIED VALUE	PARAMETER	VERIFIED VALUE
Product identity	RSD-GW3-Ex2.DPE	Internal cycle time	1.6 ms
Function	PROFIBUS DP V1 gateway with HART support	Rated supply	8.88 to 9.5 V
System	Intrinsically safe Remote I/O	Power consumption	8.5 W
Installation areas	Zones 1, 2 and 22	Status indication	PWR, INT, EXT and RED LEDs
Fieldbus protection	EEx ib IIC	Media redundancy	PROFIBUS supported
PROFIBUS rate	9.6 to 1500 kbit/s	Configuration	PACTware
Address range	1 to 99 by switch	Hot swap	Permitted in Zone 1 under documented conditions
Gateways on IS bus	Up to 10	Degree of protection	IP20; separate enclosure required
I/O modules per gateway	Up to 8	Operating temperature	-20 to 70 degrees C

Engineering 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.

Applications and Engineering FAQ

APPLICATION	ENGINEERING CONTEXT
Hazardous-area remote I/O	Links approved remote I/O modules from Zones 1, 2 or 22 to the host.
PROFIBUS process integration	Exchanges cyclic data, configuration and diagnostics with a DP V1 master.
HART asset access	Carries supported HART information for connected field instruments.
Redundant fieldbus station	Uses the documented media-redundant PROFIBUS arrangement for installed process systems.

Model-Specific FAQ - Part 1

QUESTION	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 6ES7417-4XL04-0AB0	View Siemens 6ES7417-4XL04-0AB0
Siemens 6ES7416-2FN05-0AB0	View Siemens 6ES7416-2FN05-0AB0
Siemens 6ES7414-2XG02-0AB0	View Siemens 6ES7414-2XG02-0AB0
Siemens 6ES7407-0RA02-0AA0	View Siemens 6ES7407-0RA02-0AA0

FAQ, Related Products and Sources

QUESTION	ANSWER
How many I/O modules can Pepperl+Fuchs RSD-GW3-Ex2.DPE manage?	It supports up to eight I/O modules through the backplane.
Which PROFIBUS rates support Pepperl+Fuchs RSD-GW3-Ex2.DPE?	The documented range is 9.6 to 1500 kbit/s.
How is the Pepperl+Fuchs RSD-GW3-Ex2.DPE address set?	The address is set from 1 to 99 using the gateway switches.
Does Pepperl+Fuchs RSD-GW3-Ex2.DPE support HART?	Yes. The manufacturer data sheet lists HART signal support.
Does Pepperl+Fuchs RSD-GW3-Ex2.DPE support PROFIBUS media redundancy?	Yes. Media redundancy is a documented gateway feature.
What confirms Pepperl+Fuchs RSD-GW3-Ex2.DPE commissioning?	Verify power, address, termination, host communication, redundancy, diagnostics and every configured I/O channel.

MODEL	APTER POWER PAGE
Siemens 6ES7432-1HF00-0AB0	View Siemens 6ES 7432-1HF00-0AB0
Siemens 6ES7422-1BL00-0AA0	View Siemens 6ES 7422-1BL00-0AA0
Siemens 6ES7421-1BL01-0AA0	View Siemens 6ES 7421-1BL01-0AA0
Siemens 6ES7400-2JA10-0AA1	View Siemens 6ES 7400-2JA10-0AA1

MANUFACTURER SOURCE RECORDS

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