

INDUSTRIAL AUTOMATION PRODUCT

9468-33-08-10

IS1+ HART Analogue Universal Module for Zone 2

R. STAHL 9468-33-08-10 is an eight-channel HART analogue universal module for IS1+ Remote I/O in Zone 2. Each channel can be configured as an intrinsically safe analogue input or output with line-fault monitoring.

IDENTITY	VERIFIED VALUE
Manufacturer	R. STAHL
System family	R. STAHL IS1+ Remote I/O
Part number	9468-33-08-10
Product role	Provides eight individually configurable analogue channels
Lifecycle	Installed product record

DOCUMENT SCOPE

Exact-article identity, technical data, host role, installation checks, applications, precautions and engineering verification.

MODEL-SPECIFIC ENGINEERING NOTE

Install 9468-33-08-10 on the documented BusRail 9494 position and record every channel's input/output mode, HART assignment, intrinsically safe field circuit and line-fault setting before removal.

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Technical Specifications

Technical values below are limited to the named R. STAHL product record and directly applicable manufacturer documentation.

PARAMETER	VALUE	PARAMETER	VALUE
Official type	9468/33-08-10 AUMH 08 Z2	Hot swap	Permitted in Zone 2
Article number	210660	Current consumption	220 mA at 20 mA per channel
Channels	8	Maximum power	5.3 W
Channel function	Analogue input or output	Maximum power dissipation	3.7 W
Signal range	0/4 to 20 mA	Resolution without HART	14.75 bit
Communication	HART	Resolution with HART	12.75 bit
Explosion protection	Ex ia IIC	Maximum output load	750 ohm at 20 mA
Mounting platform	BusRail 9494	Protection rating	IP20

Verified Product Record

DATA GROUP	VERIFIED VALUE
Installed host / carrier	R. STAHL IS1+ Remote I/O
Primary system role	Provides eight individually configurable analogue channels
Connection boundary	Install 9468-33-08-10 on the documented BusRail 9494 position and record every channel's input/output mode, HART assignment, intrinsically safe field circuit and line-fault setting before removal.
Controlled acceptance duty	Zone 2 HART transmitter input

ENGINEERING BOUNDARY

Confirm 9468-33-08-10, 9468/33-08-10 AUMH 08 Z2, article 210660, BusRail 9494 position, module hardware execution, terminal and Ex i wiring, channel modes, HART configuration, line-fault settings, shielding, grounding and controlled loop-test status before commissioning.

Pre-Installation Checks

1	Confirm 9468-33-08-10, official type 9468/33-08-10 AUMH 08 Z2 and article 210660.	2	Place the process loops and final elements in the approved maintenance state.
3	Follow the Zone 2 and intrinsic-safety work procedure and apply ESD controls.	4	Record every channel mode, 0/4 to 20 mA range, HART address and line-fault setting.

Documented Service Record

RECORD ITEM	REQUIRED ENTRY
As-found article	9468-33-08-10
Installed host	R. STAHL IS1+ Remote I/O
Connection record	Capture before removal
Controlled release	Diagnostics and functional proof

System Role and Architecture

R. STAHL 9468-33-08-10 is an eight-channel HART analogue universal module for IS1+ Remote I/O in Zone 2. Each channel can be configured as an intrinsically safe analogue input or output with line-fault monitoring.

FUNCTION 1
Provides eight individually configurable analogue channels

FUNCTION 2
Supports 0/4 to 20 mA input and output operation

FUNCTION 3
Carries bidirectional HART communication

FUNCTION 4
Supports line-fault monitoring and Zone 2 hot swap

Matched System Components

NO.	DOCUMENTED COMPONENT / ROLE
1	R. STAHL IS1+ Remote I/O
2	210660
3	Zone 2 HART transmitter input
4	Install 9468-33-08-10 on the documented BusRail 9494 position and record every channel's input/output mode, HART assignment, intrinsically safe field circuit and line-fault setting before removal.

System Integration Record

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	R. STAHL IS1+ Remote I/O
Interface role	Provides eight individually configurable analogue channels
Field / power context	The module plugs into BusRail 9494 and interfaces approved Ex i field circuits through the documented IS1+ terminal arrangement.
Commissioning evidence	Complete controlled input simulation and output proof tests before returning the station to service.

Installation and Connection Checks

- 1

Verify BusRail 9494 position, terminal assignment, cable shield and Ex i circuit segregation.
- 2

Restore the approved IS1+ station and channel configuration before loop energization.
- 3

Review module and channel LEDs, line-fault status and HART communication loop by loop.
- 4

Complete controlled input simulation and output proof tests before returning the station to service.

MANUFACTURER SOURCE RECORD

IS1+ HART Analogue Universal Module for Zone 2 Ex i - 9468/33-08-10
R. STAHL single data sheet, article 210660

Applications and Engineering Context

Zone 2 HART transmitter input

Acquires intrinsically safe 0/4 to 20 mA measurements with HART device communication.

Intrinsically safe control output

Drives approved analogue final elements from a configured IS1+ output channel.

Mixed analogue marshalling

Assigns input and output roles independently across eight field channels.

Remote I/O loop diagnostics

Uses channel LEDs, line-fault monitoring and HART status during controlled maintenance.

TECHNICAL NOTE

Install 9468-33-08-10 on the documented BusRail 9494 position and record every channel's input/output mode, HART assignment, intrinsically safe field circuit and line-fault setting before removal.

Model-Specific Acceptance Evidence

CHECK	ACCEPTANCE CONDITION
Identity	9468-33-08-10 recorded
Host / carrier	R. STAHL IS1+ Remote I/O
Physical interface	Provides eight individually configurable analogue channels
Configuration	Review module and channel LEDs, line-fault status and HART communication loop by loop.
Functional proof	Complete controlled input simulation and output proof tests before returning the station to service.

IMPORTANT NOTICE

Confirm 9468-33-08-10, 9468/33-08-10 AUMH 08 Z2, article 210660, BusRail 9494 position, module hardware execution, terminal and Ex i wiring, channel modes, HART configuration, line-fault settings, shielding, grounding and controlled loop-test status before commissioning.

Controlled Release Summary

RELEASE ITEM	MODEL-SPECIFIC CONDITION
Article identity	9468-33-08-10
Approved role	Zone 2 HART transmitter input
Final validation	Complete controlled input simulation and output proof tests before returning the station to service.

Engineering Precautions

1	Confirm 9468-33-08-10, official type 9468/33-08-10 AUMH 08 Z2 and article 210660.	2	Place the process loops and final elements in the approved maintenance state.
3	Follow the Zone 2 and intrinsic-safety work procedure and apply ESD controls.	4	Record every channel mode, 0/4 to 20 mA range, HART address and line-fault setting.
5	Verify BusRail 9494 position, terminal assignment, cable shield and Ex i circuit segregation.	6	Restore the approved IS1+ station and channel configuration before loop energization.
7	Review module and channel LEDs, line-fault status and HART communication loop by loop.	8	Complete controlled input simulation and output proof tests before returning the station to service.

Related Products on Apter Power

MODEL	SYSTEM ROLE	APTER POWER PAGE
9470/32-16-11	IS1+ digital I/O module	View 9470/32-16-11 page
9440/15-01-11	IS1 CPU and power module	View 9440/15-01-11 page

Engineer Verification FAQ

MODEL-SPECIFIC QUESTION	VERIFIED RESPONSE
Which IS1+ carrier is required for 9468-33-08-10?	Use the documented BusRail 9494 position and preserve the approved IS1+ station and terminal arrangement.
How many channels does 9468-33-08-10 provide?	The module provides eight channels, each configurable as an analogue input or analogue output.
Which signal and protocol does 9468-33-08-10 support?	Each channel supports 0/4 to 20 mA operation with bidirectional HART communication.
Can 9468-33-08-10 be replaced while the Zone 2 station remains energized?	The official record supports hot swap in Zone 2, subject to the approved hazardous-area and intrinsic-safety work procedure.

MANUFACTURER SOURCE RECORD

IS1+ HART Analogue Universal Module for Zone 2 Ex i - 9468/33-08-10
R. STAHL single data sheet, article 210660

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