

SA920B Power Supply

Freelance hardware selector



The remote S900 I/O system can be installed in non-hazardous areas or directly in Zone 1 or Zone 2 hazardous area depending on the selected system variant. S900 I/O communicates with the control system level using the PROFIBUS DP standard. The I/O system can be installed directly in the field, therefore the costs for marshalling and wiring are reduced.

The system is sturdy, error-tolerant and easy to service. Integrated disconnection mechanisms allow replacement during operation, meaning that there is no need to interrupt the primary voltage in order to exchange the power supply units.

S900 I/O type B. For installation in hazardous area Zone 2. For connecting intrinsically safe field devices installed in Zone 2, Zone 1 or Zone 0.

SA920B Power Supply for 24 V DC, for redundant termination unit TU921B (TU16R-B) in S900 I/O. Do not mix SA910B with SA920B for redundancy (observe Release Notes).

Features and benefits

- ATEX Certification for installation in Zone 2
- Redundancy (Power and Communication)
- Hot Configuration in Run
- Hot Swap functionality
- Extended Diagnostic
- Excellent configuration and diagnostics via FDT/DTM
- G3-coating for all components
- Simplified maintenance with auto-diagnostics
- Powering of communication interfaces and I/O modules
- Hot swap capability in Zone 2
- Redundant powering
- Alarm in case of power failure (with redundancy)
- Switching On by tighten the 4 switch-on interlock screws

General info	
Article number	3BDH000601R1
Signal specification	24 V d.c. (19.2 - 32 V d.c.)
Signal type	Power supply
SOE	N/A
Redundancy	Yes
Intrinsic safety	Yes
Mechanics	S900

Environment and certification	
CE mark	Yes
Hazardous Location	ATEX Zone 2
Corrosive atmosphere ISA-S71.04	G3
Climatic operating conditions	Relative humidity max. 93 % +/- 3 % at 40 °C
Max ambient temperature	-20 °C...+60 °C
RoHS compliance	DIRECTIVE/2011/65/EU (EN 50581:2012)
WEEE compliance	DIRECTIVE/2012/19/EU
WEEE category	Small Equipment (No External Dimension More Than 50 cm)

Dimensions	
Width	47 mm (1.85 in.)
Depth	117 mm (4.6 in.)
Height	129 mm 5.1 in.)
Weight	1.6 kg (3.5 lbs.)

**solutions.abb/freelance
solutions.abb/controlsystems**

We reserve the right to make technical changes to the products or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB does not assume any responsibility for any errors or incomplete information in this document.

We reserve all rights to this document and the items and images it contains. The reproduction, disclosure to third parties or the use of the content of this document – including parts thereof – are prohibited without ABB's prior written permission.

Copyright© 2026 ABB All rights reserved