

ifm AC1335

AS-Interface PROFIBUS Gateway

Product scope

- Controls one AS-i network while acting as a PROFIBUS DP slave toward the plant controller.
- Displays network states and diagnostic information on a backlit local graphic screen.
- Supports both standard slaves and extended A/B addressing within the AS-i 2.1 architecture.

Manufacturer source

Exact-model technical record

Verified model-specific overview, function, operating principle, applications and technical data.

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ifm AC1335

AS-Interface PROFIBUS Gateway

Product overview

ifm AC1335 is a SmartLink DP gateway combining one AS-i 2.1 master with a PROFIBUS DP slave interface. It links as many as 62 A/B slaves to a higher-level fieldbus while providing local display and diagnostics.

AC1335 consolidates one AS-Interface segment and a PROFIBUS DP connection in a 68 mm DIN-rail housing. The gateway is powered from the AS-i supply and presents status through a 128 x 64 backlit graphic display, four keys and four LEDs.

Its AS-i master manages standard and extended-address slaves while PROFIBUS transfers cyclic process data to the controller. An RS-232 service interface supports local commissioning and diagnostic access without changing the field wiring.

Network design must retain the AS-i voltage window, bus profiles and PROFIBUS transmission limits. Replacement work should also preserve the GSD-based controller configuration, station address and the existing A/B slave allocation.

Technical specifications

AS-i master generation	AS-i 2.1
AS-i master count	1
Maximum AS-i slaves	62 A/B slaves
AS-i profile	M3
Fieldbus role	PROFIBUS DP slave
PROFIBUS data rate	9.6 kbit/s to 12 Mbit/s
Supply source	AS-i network
Operating voltage	26.5 to 31.6 V DC
Current consumption	Less than 0.2 A
Display	128 x 64 pixel backlit graphic LCD
Local controls	4 keys
Status indication	4 LEDs
Service interface	RS-232 via RJ11
RS-232 rate	9600 to 115200 bit/s
Mounting	35 mm DIN rail
Housing material	Aluminium
Degree of protection	IP20
Operating temperature	0 to 60 °C
Storage temperature	-20 to 70 °C

AC1335 function and operating principle

Ordered configuration

The ordered unit is the single-master SmartLink DP version with integrated local operation.

System role

It concentrates sensor and actuator data from the AS-i cable into the PROFIBUS process image.

Selection and installation

Commissioning should begin with the saved bus address, GSD assignment and slave configuration from the existing station.

Functional path

- Controls one AS-i network while acting as a PROFIBUS DP slave toward the plant controller.
- Displays network states and diagnostic information on a backlit local graphic screen.
- Supports both standard slaves and extended A/B addressing within the AS-i 2.1 architecture.

Application scenarios

- Packaging machines can collect distributed binary field signals on one AS-i segment and forward them to a PROFIBUS controller.
- Conveyor zones use the gateway to combine compact actuator networks with established DP-based line control.
- Service teams can inspect slave faults locally before opening controller engineering software.

AC1335 engineering checks

Communication

- PROFIBUS DP exchanges cyclic plant data at selectable rates up to 12 Mbit/s.
- The AS-i master addresses as many as 62 extended A/B nodes on one network.
- A front-access RS-232 port supports service communication from 9600 to 115200 bit/s.

Diagnostics

- The graphic LCD presents configuration and fault information without requiring an external display.
- Four status LEDs provide immediate indication of gateway and bus operating states.
- Keypad navigation allows maintenance personnel to inspect the connected AS-i system locally.

Configuration

- Controller integration uses the device description and the selected PROFIBUS station address.
- Extended-address operation must match the A/B assignments already stored for the field nodes.
- A saved slave list reduces commissioning risk when replacing a gateway in an operating machine.

Critical technical note

For AC1335 replacement, preserve the PROFIBUS address and AS-i slave map before disconnecting the original gateway.

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