

Installation Identity and Scope

IFM Electronic AC1335 SmartLink DP is a single-master AS-i to PROFIBUS-DP gateway configured through a GSD file. Its backlit display, four keys and integrated diagnostics support commissioning and online status checks for up to 62 A/B AS-i slaves.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	AC1335
Manufacturer	IFM Electronic
Hardware role	AS-i DP Gateway
System family	SmartLink DP

Controlled engineering copy

Supply AC1335 from the documented AS-i voltage range and retain the specified FE grounding arrangement. Verify the GSD configuration, PROFIBUS-DP address, AS-i slave list and diagnostic counters before release.

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AC1335

Pre-Installation Plan

NO.	REQUIRED ACTION
1	Verify the complete AC1335 marking before installation or replacement.
2	Use the approved 26.5 to 31.6 VDC AS-i supply range.
3	Preserve the documented FE grounding and galvanic-separation arrangement.
4	Load the exact manufacturer GSD file for the configured PROFIBUS system.
5	Record the PROFIBUS-DP address and the complete AS-i slave list.
6	Confirm A/B addressing and participant status before enabling cyclic exchange.
7	Review the message error counter and Safety at Work diagnostics before release.
8	Run a controlled input/output transfer test and retain the acceptance record.

Before Energization

CONTROL	REQUIRED RECORD
Identity	Complete AC1335 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
AS-i master version	2.1
AS-i slave capacity	Up to 62 A/B slaves
Configuration	PROFIBUS GSD file
Display	Backlit 128 x 64 graphic LCD
Local controls	Four function keys and four LEDs
Diagnostics	Message error counter; I/O and status display
Safety diagnostics	Safety at Work diagnostic support
Operating voltage	26.5 to 31.6 VDC via AS-i

Configuration boundary

Supply AC1335 from the documented AS-i voltage range and retain the specified FE grounding arrangement. Verify the GSD configuration, PROFIBUS-DP address, AS-i slave list and diagnostic counters before release.

Expected Technical Values

PARAMETER	VALUE
AS-i current	Less than 200 mA
Operating temperature	0 to 60 degrees C
Mounting	DIN rail
Terminals	Combicon screw clamps

Commissioning and Acceptance

TEST	ACCEPTANCE CONDITION
Identity	Manufacturer and complete AC1335 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 the role of IFM Electronic AC1335?	AC1335 links one AS-i master network to a PROFIBUS-DP master as a DP slave gateway.
How is IFM Electronic AC1335 configured?	The PROFIBUS side is integrated with the manufacturer GSD file; local setup and diagnostics use the display and four keys.
How many AS-i slaves can IFM Electronic AC1335 manage?	The documented AS-i master supports up to 62 A/B slaves.
What supply does IFM Electronic AC1335 require?	It is supplied through AS-i at 26.5 to 31.6 VDC and draws less than 200 mA from AS-i.

Source, Related Products and Release

RELEASE CHECK	REQUIRED RECORD
Identity	Exact AC1335 marking recorded
Configuration	Approved project values and current manufacturer document retained
Diagnostics	Status, counters and controlled data transfer accepted

MANUFACTURER SOURCE RECORDS

1. ifm AS-interface Device Manual: AS-i PROFIBUS-DP Gateways, 14 March 2005
2. ifm Bus System AS-interface Catalogue 2008/2009, SmartLink DP AC1335 pages 40-41

Controlled Release Summary

RELEASE ITEM	REQUIRED EVIDENCE
Identity	AC1335 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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