

AC1335

AS-i DP Gateway

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.

IDENTITY	VERIFIED VALUE
Manufacturer	IFM Electronic
Complete model	AC1335
Product role	AS-i DP Gateway
System family	SmartLink DP

Document scope

Exact identity, manufacturer-supported technical data, applications, precautions, model-specific FAQ and controlled acceptance records.

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com



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Technical Specifications

PARAMETER	VERIFIED VALUE	PARAMETER	VERIFIED VALUE
Product identity	AC1335 SmartLink DP	Safety diagnostics	Safety at Work diagnostic support
Gateway relationship	One AS-i master to PROFIBUS-DP slave	Operating voltage	26.5 to 31.6 VDC via AS-i
AS-i master version	2.1	AS-i current	Less than 200 mA
AS-i slave capacity	Up to 62 A/B slaves	Operating temperature	0 to 60 degrees C
Configuration	PROFIBUS GSD file	Mounting	DIN rail
Display	Backlit 128 x 64 graphic LCD	Terminals	Combicon screw clamps
Local controls	Four function keys and four LEDs	Housing	Aluminium and steel
Diagnostics	Message error counter; I/O and status display	Galvanic separation	Documented interface separation

Engineering 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.

Functions and Applications

AS-i master

Controls one documented AS-i network and transfers cyclic data through PROFIBUS-DP.

GSD integration

Uses the manufacturer GSD file for PROFIBUS configuration and device integration.

Local display

Shows configuration, online I/O, status information and diagnostic counters.

Field diagnostics

Supports addressing, error review and Safety at Work diagnostic visibility.

Common Applications

APPLICATION	ENGINEERING CONTEXT
AS-i cell integration	Connects a single AS-i segment to a PROFIBUS-DP control system.
Distributed I/O gateway	Transfers binary field-device data between AS-i slaves and the DP master.
Commissioning station	Uses the local LCD and keys to inspect participants, I/O and status.
Maintenance diagnostics	Reviews message-error counters and Safety at Work diagnostic states.

Controlled acceptance duty

Confirm identity, interfaces, configured values and functional response against the installed-system record before release.

Engineering Precautions

NO.	PRECAUTION
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.

Model-Specific FAQ - Part 1

QUESTION	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.

Model-Specific FAQ - Part 2

QUESTION	ANSWER
What does the IFM Electronic AC1335 display support?	The backlit 128 x 64 LCD supports configuration, online I/O, participant status and diagnostics.
Which diagnostics are available on IFM Electronic AC1335?	The gateway provides message-error counting, I/O and status display, participant addressing and Safety at Work diagnostics.
How is IFM Electronic AC1335 mounted and connected?	It mounts on DIN rail and uses documented Combicon screw-clamp connections with the specified FE arrangement.
What confirms IFM Electronic AC1335 commissioning?	The GSD, DP address, AS-i participant list and diagnostic counters must match the approved record, followed by a controlled data-transfer test.

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

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