



SIMATIC ET 200AL, PROFIBUS interface module IM 157-1 DP, Degree of protection IP67; Product phase-out planned - see SIOS 109989704

General information	
Product type designation	IM 157-1 DP
HW functional status	FS02
Firmware version	V1.0.x
Vendor identification (VendorID)	81A9H
Product function	
• I&M data	Yes; I&M0 to I&M3
Engineering with	
• STEP 7 TIA Portal configurable/integrated from version	STEP 7 V13 SP1 or higher
• STEP 7 configurable/integrated from version	From V5.5 SP4 Hotfix 3
• PROFIBUS from GSD version/GSD revision	GSD as of Revision 5
Configuration control	
via dataset	Yes
Supply voltage	
power supply according to NEC Class 2 required	No
Load voltage 1L+	
• Rated value (DC)	24 V
• permissible range, lower limit (DC)	20.4 V
• permissible range, upper limit (DC)	28.8 V
• Reverse polarity protection	Yes; against destruction
Input current	
Current consumption (rated value)	50 mA
from load voltage 1L+ (unswitched voltage)	4 A; Maximum value
from load voltage 2L+, max.	4 A; Maximum value
Power loss	
Power loss, typ.	1.7 W
Address area	
Address space per station	
• Address space per station, max.	244 byte
Interfaces	
Number of PROFIBUS interfaces	1
1. Interface	
Interface type	PROFIBUS DP
Interface types	
• RS 485	Yes
• M12 port	Yes; 2x M12 B-coded
Protocols	
• PROFIBUS DP device	Yes
Interface types	
RS 485	

• Transmission rate, max.	12 Mbit/s	
<b>Protocols</b>		
Supports protocol for PROFINET IO	No	
PROFIsafe	No	
PROFIBUS	Yes	
EtherNet/IP	No	
<b>PROFIBUS DP</b>		
Services		
— SYNC capability	Yes	
— FREEZE capability	Yes	
— Direct data exchange (slave-to-slave communication)	Yes	
— DPV0	Yes	
— DPV1	Yes	
<b>Interrupts/diagnostics/status information</b>		
Diagnostics function	Yes	
<b>Alarms</b>		
• Diagnostic alarm	Yes	
<b>Diagnostics indication LED</b>		
• RUN LED	Yes; green LED	
• ERROR LED	Yes; red LED	
• MAINT LED	Yes; Yellow LED	
• Connection display DP	Yes; green LED	
<b>Potential separation</b>		
between the load voltages	Yes	
between PROFIBUS DP and all other circuit components	Yes	
<b>Isolation</b>		
Isolation tested with	707 V DC (type test)	
<b>Degree and class of protection</b>		
IP degree of protection	IP65/67	
<b>Standards, approvals, certificates</b>		
Suitable for safety-related tripping of standard modules	Yes; from FS01	
<b>Highest safety class achievable for safety-related tripping of standard modules</b>		
• Performance level according to ISO 13849-1	PL d	
• Category according to ISO 13849-1	Cat. 3	
• SIL acc. to IEC 62061	SIL 2	
• remark on safety-oriented shutdown	<a href="https://support.industry.siemens.com/cs/de/en/view/39198632">https://support.industry.siemens.com/cs/de/en/view/39198632</a>	
<b>Ambient conditions</b>		
Ambient temperature during operation		
• min.	-30 °C	
• max.	55 °C	
<b>connection method</b>		
Design of electrical connection for supply voltage	M8, 4-pole	
<b>ET-Connection</b>		
• ET-Connection	M8, 4-pin, shielded	
<b>Dimensions</b>		
Width	45 mm	
Height	159 mm	
Depth	46 mm	
<b>Weights</b>		
Weight, approx.	211 g	
<b>Classifications</b>		
	<b>Version</b>	<b>Classification</b>
eClass	14	27-24-26-08
eClass	12	27-24-26-08
eClass	9.1	27-24-26-08
eClass	9	27-24-26-08
eClass	8	27-24-26-08
eClass	7.1	27-24-26-08

eClass	6	27-24-26-08
ETIM	10	EC001604
ETIM	9	EC001604
ETIM	8	EC001604
ETIM	7	EC001604
IDEA	4	3564
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval



[Miscellaneous](#)

[Manufacturer Declaration](#)

[KC](#)



General Product Approval

EMV

Maritime application



[KC](#)



Maritime application

other

Industrial Communication

[NK / Nippon Kaiji Kyokai](#)



[CCS \(China Classification Society\)](#)



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