

SIMATIC ET 200AL, PROFIBUS INTERFACEMODULE IM157-1 DP,
DEGREE OF PROTECTION IP67



General information	
Product type designation	IM 157-1 DP
HW functional status	E01
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 as of version	STEP 7 V13 SP1 or higher
• STEP 7 configurable/integrated as of version	From V5.5 SP4 Hotfix 3
• PROFIBUS as of GSD version/GSD revision	GSD as of Revision 5
Configuration control	
via dataset	Yes
Supply voltage	
Load voltage 1L+	
• Rated value (DC)	24 V
• permissible range, lower limit (DC)	20.4 V

• permissible range, upper limit (DC) • Reverse polarity protection	28.8 V 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 • M12 port	Yes Yes; 2x M12 b-coded
Functionality	
• PROFIBUS DP slave	Yes
Interface types	
RS 485	
• Transmission rate, max.	12 Mbit/s
Protocols	
PROFIBUS	
Services	
— SYNC capability	Yes
— FREEZE capability	Yes
— Direct data exchange (slave-to-slave communication)	Yes
— DPV0	Yes
— DPV1	Yes
Interrupts/diagnostics/status information	
Alarms	Yes
Diagnostic functions	Yes
Diagnostics indication LED	
• RUN LED • ERROR LED • MAINT LED	Yes; Green LED Yes; Red LED Yes; yellow LED

- Connection display DP

Yes; Green LED

Potential separation

between the load voltages

Yes

between PROFIBUS DP and all other circuit components

Yes

Isolation

Isolation tested with

707 V DC (type test)

Degree and class of protection

Degree of protection acc. to EN 60529

- IP65

Yes

- IP67

Yes

Ambient conditions

Ambient temperature during operation

- min.

-25 °C

- max.

55 °C

Connection method

Power supply

M8, 4-pole

ET-Connection

- ET-Connection

M8, 4-pin, shielded

Dimensions

Width

45 mm

Height

159 mm

Depth

46 mm

Weights

Weight, approx.

211 g

last modified:

10/28/2016