



### Main

Product or component type	Profibus DP communication module
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### Complementary

Range compatibility	Modicon M241 Modicon M251
Product compatibility	Modicon M241 logic controller Modicon M251 logic controller
Current consumption	290 mA at 5 V DC for communication bus
Power dissipation in W	1.5 W
Integrated connection type	Female SUB-D 9 Profibus DP
Transmission rate	1.5 Mbit/s for bus length of 200 m 500 kbit/s for bus length of 400 m 187.5 kbit/s for bus length of 1000 m 9.6...93.75 kbit/s for bus length of 1200 m 3...12 Mbit/s for bus length of 100 m
Communication port protocol	Profibus DP V1 Profibus DP V0
Insulation	Between bus and internal logic at 1000 V DC
Local signalling	1 LED green/yellow for power supply 1 LED green/red for communication
Electrical connection	Screw connector - terminal for connecting the functional ground SUB-D 9 - 1 female connector for connecting Profibus
Marking	CE
Surge withstand	1 kV (power lines (DC)) with common mode protection conforming to EN/IEC 61000-4-5 2 kV (power lines (AC)) with common mode protection conforming to EN/IEC 61000-4-5 2 kV (relay output) with common mode protection conforming to EN/IEC 61000-4-5 1 kV (I/O) with common mode protection conforming to EN/IEC 61000-4-5 1 kV (shielded cable) with common mode protection conforming to EN/IEC 61000-4-5 0.5 kV (power lines (DC)) with differential mode protection conforming to EN/IEC 61000-4-5 1 kV (power lines (AC)) with differential mode protection conforming to EN/IEC 61000-4-5 1 kV (relay output) with differential mode protection conforming to EN/IEC 61000-4-5 0.5 kV (I/O) with differential mode protection conforming to EN/IEC 61000-4-5
Mounting support	Top hat type TH35-15 rail conforming to IEC 60715 Top hat type TH35-7.5 rail conforming to IEC 60715 Plate or panel with fixing kit
Width	25 mm
Height	90 mm
Depth	90 mm
Product weight	0.1 kg

### Environment

The information provided in this documentation contains general descriptions and/or technical characteristics of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

standards	EN/IEC 61131-2 UL 508 EIA-485
product certifications	C-Tick CULus
resistance to electrostatic discharge	4 kV (on contact) conforming to EN/IEC 61000-4-2 8 kV (in air) conforming to EN/IEC 61000-4-2 8 kV (in air) conforming to Marine specification (LR, ABS, DNV, GL) 6 kV (on contact) conforming to Marine specification (LR, ABS, DNV, GL)
resistance to electromagnetic fields	1 V/m (2...2.7 GHz) conforming to EN/IEC 61000-4-3 10 V/m (80 MHz...1 GHz) conforming to EN/IEC 61000-4-3 3 V/m (1.4 GHz...2 GHz) conforming to EN/IEC 61000-4-3
resistance to fast transients	2 kV (power lines) conforming to EN/IEC 61000-4-4 2 kV (relay output) conforming to EN/IEC 61000-4-4 1.5 kV (I/O) conforming to EN/IEC 61000-4-4 1 kV (Ethernet line) conforming to EN/IEC 61000-4-4 1 kV (serial link) conforming to EN/IEC 61000-4-4
resistance to conducted disturbances	10 V (0.15...80 MHz) conforming to EN/IEC 61000-4-6 3 V (0.1...80 MHz) conforming to Marine specification (LR, ABS, DNV, GL) 10 V (spot frequency (2, 3, 4, 6.2, 8.2, 12.6, 16.5, 18.8, 22, 25 MHz)) conforming to Marine specification (LR, ABS, DNV, GL)
electromagnetic emission	Conducted emissions - test level: 120...69 dBµV/m QP ( power lines) at 10...150 kHz conforming to EN/IEC 55011 Conducted emissions - test level: 79 dBµV/m QP/66 dBµV/m AV ( power lines (AC)) at 0.15...0.5 MHz conforming to EN/IEC 55011 Conducted emissions - test level: 73 dBµV/m QP/60 dBµV/m AV ( power lines (AC)) at 0.5...300 MHz conforming to EN/IEC 55011 Conducted emissions - test level: 63 dBµV/m QP ( power lines) at 1.5...30 MHz conforming to EN/IEC 55011 Radiated emissions - test level: 40 dBµV/m QP class A at 30...230 MHz conforming to EN/IEC 55011 Radiated emissions - test level: 60...54 dBµV/m QP at 30...100 MHz conforming to Marine specification (LR, ABS, DNV, GL) Radiated emissions - test level: 24 dBµV/m QP at 156...165 MHz conforming to Marine specification (LR, ABS, DNV, GL) Conducted emissions - test level: 79...63 dBµV/m QP ( power lines) at 150...1500 kHz conforming to EN/IEC 55011 Radiated emissions - test level: 47 dBµV/m QP class A at 230...1000 MHz conforming to EN/IEC 55011 Radiated emissions - test level: 80...50 dBµV/m QP at 150...30000 kHz conforming to Marine specification (LR, ABS, DNV, GL) Radiated emissions - test level: 54 dBµV/m QP at 100...2000 MHz conforming to Marine specification (LR, ABS, DNV, GL)
ambient air temperature for operation	-10...50 °C vertical installation -10...55 °C horizontal installation
ambient air temperature for storage	-25...70 °C
relative humidity	10...95 % without condensation in operation 10...95 % without condensation in storage
IP degree of protection	IP20 with protective cover in place
pollution degree	2
operating altitude	0...2000 m
storage altitude	0...3000 m
vibration resistance	1 mm at 5...13.2 Hz on symmetrical rail 3 gn at 8.7...150 Hz on symmetrical rail 1 mm at 5...13.2 Hz on panel mounting 0.7 gn at 13.2...100 Hz on panel mounting
shock resistance	15 gn during 11 ms

## Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1408 - Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available