



Main

Range of product	Profibus DP
Product or component type	Profibus DP V1 remote master
Kit composition	CD including the Master DTM for PRM configuration inside UNITY CD including the communication DTM
Communication gateway	Ethernet Modbus TCP to Profibus DP V1 gateway
Product compatibility	Quantum PLC M340 PLC Premium PLC M580 PLC
Structure type	Industrial bus

Complementary

Physical interface	RS485
Method of access	Slave (Modbus TCP) Master class 2 (Profibus DP) Master class 1 (Profibus DP)
Mode of transmission	NRZ
Transmission support medium	Category 5 shielded twisted pair (STP) (Modbus TCP) 2 twisted shielded pairs cable (Profibus)
Transmission rate	10...100 Mbit/s for bus length of 100 m without repeater (Modbus TCP) 9.6 kbit/s for bus length of 4800 m with 3 repeaters (Profibus) 9.6 kbit/s for bus length of 1200 m without repeater (Profibus) 12 Mbit/s for bus length of 400 m with 3 repeaters (Profibus) 12 Mbit/s for bus length of 100 m without repeater (Profibus)
Number of slave	126
Number of inputs	2
Number of outputs	2
Communication service	Acyclic DP V1 communication (R/W) - class 1/2 master Sync and freeze - class 1 master Transfer slave diagnostic data - class 1 master Set slave parameters (on power up) - class 1 master Read/Write DP slave I/O data - class 1 master Profibus FMS message handling not supported - class 2 master Profibus FMS message handling not supported - class 1 master No master/master dialogue - class 2 master Manage monitoring request (Global CONTROL and Get Master Diag) - class 2 master Check slave configuration (on power up) - class 1 master
Integrated connection type	Profibus DP - SUB-D 9 for Profibus DP V1 2 Ethernet TCP/IP - RJ45 for Modbus TCP
Current consumption	200 mA at 24 V DC (external)
Module format	Standard
Product weight	0.62 kg

Environment

Ambient air temperature for operation	0...60 °C
Ambient air temperature for storage	-45...85 °C
Relative humidity	10...95 % without condensation
Operating altitude	<= 2000 m

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Offer Sustainability

Sustainable offer status	Not Green Premium product
RoHS (date code: YYWW)	Compliant - since 0937 - Schneider Electric declaration of conformity
REACH	Reference contains SVHC above the threshold - go to CaP for more details

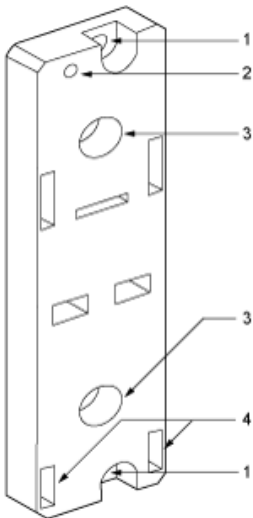
Module Mounting

At a glance

The PRM module can be installed either:

- With its support plate as a standalone module on a DIN rail, grid or panel
- Without its support plate as a Premium module inside the rack

Support Plate



Label	Meaning
1	Two holes diameter 5.5 mm (7/32 in) allowing the support plate to be fixed to a panel or to an AM1-PA pre-slotted plate, with a center distance of 140 mm (5.51 in). Tightening torque: 1 to 1.2 N-m (8.8 to 10.6 lb-in).
2	M4 fixing hole for securing the PRM module.
3	Two holes diameter 6.5 mm (0.26 in) allowing the support plate to be fixed to a panel or to an AM1-PA pre-slotted plate with a center distance of 88.9 mm (3.5 in).
4	Slots for positioning the pins located at the bottom and rear of the module

Mounting on a DIN rail or Plate

Installation on Drilled plate	Installation on Din rail	Dimensions

Mounting Type		Dimensions			
		X		Y	
mm	in.	mm	in.		
Drilled Plate	(AM1-PA)			132.7	5.22
Din Rail	(AM1-DE200)	143.7	5.66		

Mounting Type		Dimensions			
Din Rail	(AM1-DP200)	136.2	5.36		

Mounting on a Premium Rack

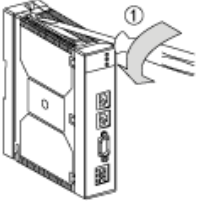
Mechanically, the PRM is mounted like other Premium modules. The support plate must be removed before mounting in this case.

Electrically, the PRM doesn't use the rack connector for communication or for power supply. It must be powered by an external power supply.

To detach the module from its support plate, follow the steps below:

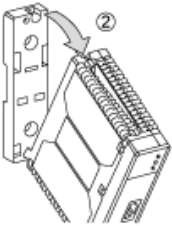
Step 1:

Unfasten the screw located in the top of the module to loosen it from its support.



Step 2:

Pivot the module forwards and disengage the pins from the holes located in the bottom of the support.



Refer to the Premium documentation for a description of the installation on the rack.