TCSEGPA23F14F

Profibus DP V1 remote master - for
Premium/Quantum/M340/M580 PLC

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

Offer Sustainability

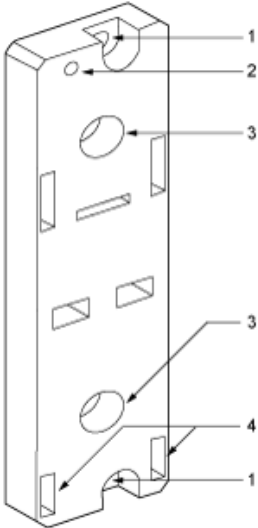|	
Sustainable offer status	Not Green Premium product

Schneider Electric

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

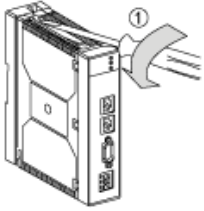| Mounting Type		Dimensions			
		X		Y	
		mm	in.	mm	in.
Drilled Plate	(AM1-PA)			132.7	5.22
Din Rail	(AM1-DE200)	143.7	5.66		
Din Rail	(AM1-DP200)	136.2	5.36		

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.

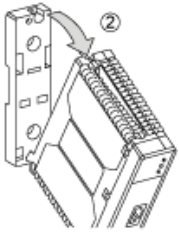To detach the module from its support plate, follow the steps below:

Step 1:

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

Step 2:

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

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