Product data sheet

Specifications

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

TCSEGPA23F14F

Product availability: Non-Stock - Not normally stocked in distribution facility

Main

Range of Product	Profibus DP
Product or Component Type	Profibus DP V1 remote master
Kit composition	CD including the communication DTM CD including the Master DTM for PRM configuration inside UNITY
Communication gateway	Ethernet Modbus TCP to Profibus DP V1 gateway
Product Compatibility	M340 PLC M580 PLC Quantum PLC Premium 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	Profibus 2 twisted shielded pairs cable Modbus TCP category 5 shielded twisted pair (STP)
Transmission rate	12 Mbit/s, 328.08 ft (100 m) Profibus without repeater 12 Mbit/s, 1312.3 ft (400 m) Profibus with 3 repeaters 9.6 kbit/s, 3937.008 ft (1200 m) Profibus without repeater 9.6 kbit/s, 15748.03 ft (4800 m) Profibus with 3 repeaters 10...100 Mbit/s, 328.08 ft (100 m) Modbus TCP without repeater
Number of server device(s)	126
Number of inputs	2
Number of outputs	2
Communication service	Check slave configuration (on power up) 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 1 master Profibus FMS message handling not supported class 2 master Read/write DP slave I/O data class 1 master Set slave parameters (on power up) class 1 master Transfer slave diagnostic data class 1 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 Modbus TCP Profibus DP - SUB-D 9 Profibus DP V1
Current consumption	200 mA 24 V DC external
Module format	Standard
Net Weight	1.37 lb(US) (0.62 kg)

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Environment

Ambient Air Temperature for Operation	32…140 °F (0…60 °C)
Ambient Air Temperature for Storage	-49…185 °F (-45…85 °C)
Relative Humidity	10…95 % without condensation
Operating altitude	<= 6561.68 ft (2000 m)

Ordering and shipping details

Category	US1PC4118225
Discount Schedule	PC41
GTIN	3595864068800
Returnability	No
Country of origin	CA

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.17 in (5.500 cm)
Package 1 Width	7.17 in (18.200 cm)
Package 1 Length	10.43 in (26.500 cm)
Package 1 Weight	22.504 oz (638.000 g)
Unit Type of Package 2	S03
Number of Units in Package 2	8
Package 2 Height	11.81 in (30.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	12.430 lb(US) (5.638 kg)

Contractual warranty

Warranty	18 months

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained ›

How we assess product sustainability ›

Use Better

Materials and Substances

Packaging made with recycled cardboard	**Yes**
Packaging without single use plastic	**Yes**
EU RoHS Directive	**Pro-active compliance (Product out of EU RoHS legal scope)**
REACh Regulation	**REACh Declaration**
California proposition 65	**WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov**

Use Again

Repack and remanufacture

Take-back	**No**
WEEE	**The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.**

Mounting and Clearance
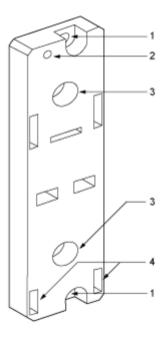
Module Mounting

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

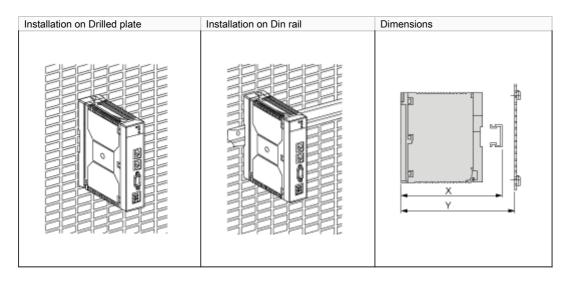- Without its support plate as a Premium module inside the rack

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:

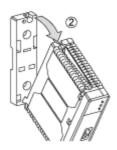Unfasten the screw located in the top of the module to loosen it from itssupport.

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.