

Presentation

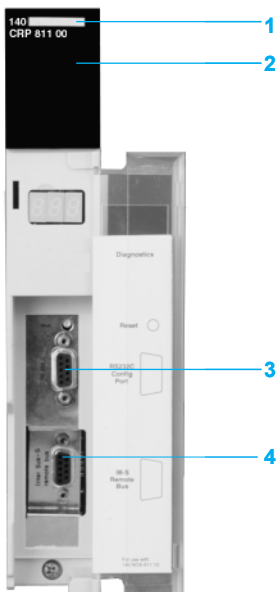
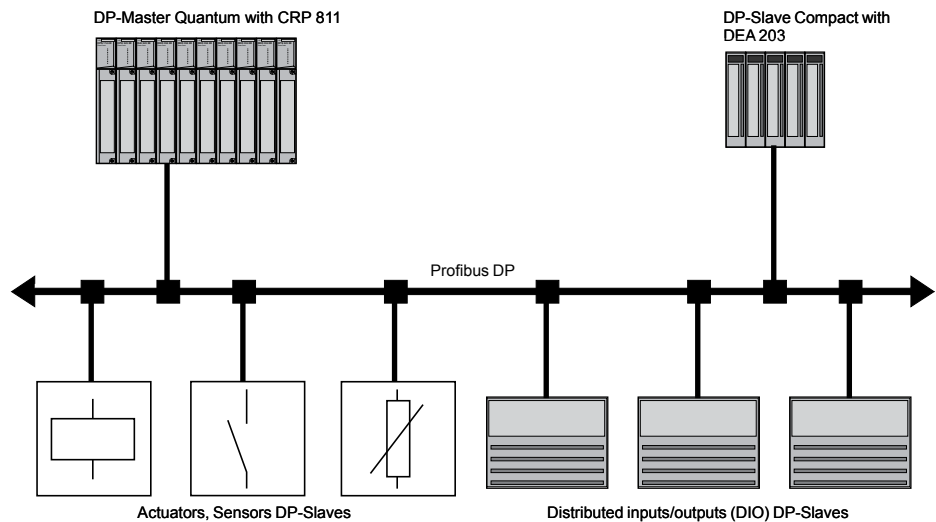
Profibus DP

Profibus DP (Distributed Process Periphery) is an enhanced, high-speed fieldbus which conforms to industrial communication requirements. Profibus DP combines two media access methods:

- The decentralized method, which uses the token-passing principle.
- The centralized method, which uses the master-slave principle.

Only master stations, called "active stations" have access rights to the bus. The slave, or "passive station", can only respond to prompts.

Profibus DP is an optimum alternative to cost-intensive parallel signal transfers at 24 V and measurement value transfers in 4 (0...20 mA) technology. It is designed for fast data exchange at sensor/actuator level. The physical connection is single-shielded twisted-pair cable, but fiber optic interfaces are available to create tree, star, or ring structures.



Description

The 140 CRP 811 00 Profibus DP module front panel comprises:

- 1 Model number and color code
- 2 LED array
- 3 RS 232C port
- 4 PCMCIA card with Profibus DP protocol (467 NHP 911)

The Profibus modules include a tap connection (490 NAE 911 00) off the main bus. This tap can be placed at distances of up to 20 cm on a DIN rail.

Characteristics	
Module type	140 CRP 811 00
Profibus	DP VO
LEDs	Active (green), Ready (green), Fault (red), Backplane (green), Profibus (green), DP S/R (green), FMS S/R (green) – not used, Load (yellow)
Number of Quantum CRP modules	Dependent on CPU design and other communication modules (see CPU)
Update time with 32 slaves (per 16 input bits, 16 output bits)	ms 12
Configuration software	Sycon SYS SPU LF● CD28M
Data interface	Profibus
	RS 232C
	RS 232C cable length
	m 3 max. (shielded)
Power output	W 6.5
Compatibility	CPUs
	Software
	All Quantum CPUs compatible with Concept/ProWORX
	Concept version ≥ 2.2, ProWORX NxT version ≥ 2.0, ProWORX 32 version ≥ 1.0 SR1

References

Profibus DP module (1)

Description	Reference	Weight kg
Profibus DP VO communication module including Tap (490 NAE 911 00) and PCMCIA card (467 NHP 811 00)	140 CRP 811 00	–

Accessories

Description	Type of device	Reference	Weight kg
Sycon configuration software	Single (1 station)	SYS SPU LFU CD28M	–
	Group (3 stations)	SYS SPU LFG CD28M	–
	Team (10 stations)	SYS SPU LFT CD28M	–
	Site (>10 stations)	SYS SPU LFF CD28M	–

Description	Length (m)	Reference	Weight kg
Profibus cables	100	TSX PBS CA100	–
	400	TSX PBS CA400	–
	By the meter	KAB PROFIB	–

RS 232 programming cables	3.7	990 NAA 263 20	–
	15.5	990 NAA 263 50	–

Description	Type	Color	Reference	Weight kg
Profibus connectors	Line termination	Yellow	490 NAD 911 03	–
	In-line connector	Gray	490 NAD 911 04	–
	In-line connector and terminal port	Gray	490 NAD 911 05	–

Replacement parts

Description	Reference	Weight kg
Main bus tap	490 NAE 911 00	–
PCMCIA card	467 NHP 811 00	–

(1) Profibus DP V1 module, compatible with Unity Pro V2.0, Concept V2.6, ProWORX NT V ≥ 2.0 and ProWORX 32 ≥ 1.0 software: reference PTQ DPP MV1 from our partner Prosoft, www.prosoft-technology.com.