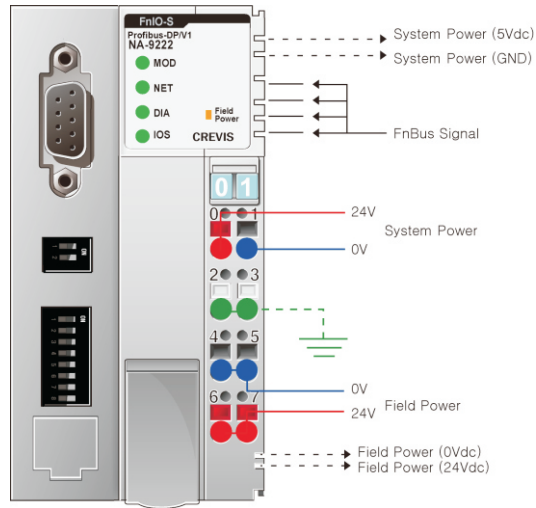


NA-9222

PROFIBUS DP/V1 Network Adapter, 244 bytes input and 244 bytes output



Item	NA-9222
Interface Specifications	
Redundancy	Not supported
Repeater Control Signal	RS-485 Signal
Freeze mode	Support
Sync mode	Support
Auto baudrate	Support
Fail safe mode	Support
Station type	Slave
FMS support	Not supported
Number of Nodes	125 Node/Max (DIP switch # 1~125)
Number of Expansion I/O slots	Max. 63 slots
I/O Data Size	Input : 244bytes / Output : 244bytes
Indicators	6 LEDs 1 Green/Red, Module Status (MOD) 1 Green/Red, Network Status (NET) 1 Red, Diagnostic Status (DIA) 1 Green/Red Expansion I/O Module Status (IOS) 1 Green, System Power Status 1 Green, Field Power Status
Baud Rate	9.6K ~ 12M(1.2Km~100m)
Communication Speed	9.6 to 12000 Kbps (Auto baudrate selection)
Other Serial Port	RS232 for MODBUS/RTU(Touch Panel, IOGuide ...)
Serial Configuration (RS232)	Node : 1 (Fixed) / Baud Rate : 115200 (Fixed) / Data bit : 8 (Fixed) Parity bit : No parity (Fixed) / Stop bit : 1 (Fixed)
Module Location	Starter module - left side of FnIO system
Field Power detection	About 11Vdc
General Specification	
System Power	Supply Voltage : 24Vdc nominal Voltage Range : 11~28.8Vdc Protection : Output Current Limit (Min. 1.5A) Reverse Polarity Protection
Power Dissipation	80mA Typical @24Vdc
Current for I/O Module	1.5A @5Vdc
Isolation	System Power to internal logic : Non-Isolation System power to I/O driver : Isolation
Field Power	Supply Voltage : 24Vdc nominal Supply Voltage Range : 11~28.8Vdc
Max. Current Field Power Contact	DC 10A Max.
Weight	165g
Module Size	54mm x 99mm x 70mm
Environment Condition	Refer to " Environment Specification"(page : 1-191)

Network Adapter

Status Indicator LED

MOD : Module Status LED

Status	LED is	To indicate
Not Powered	Off	Not power is supplied to the unit.
Normal, Operational	Green	The unit is operating in normal condition.
Device in Standby	Flashing Green	The EEPROM parameter is not initialized yet. Serial Number is zero value (0x00000000)
Minor Fault	Flashing Red	The unit has occurred recoverable fault in self-testing. - EEPROM checksum fault.
Unrecoverable Fault	Red	The unit has occurred unrecoverable fault in self-testing. - Firmware fault

NET : Network Status LED

Status	LED is	To indicate
Not Powered Not on-line	Off	Device is in mode baud rate search or may not be powered
On-line, Not connected	Flashing Green	Device is on-line but has no connections in the established state. - Not allocated to a master
On-line, Connected	Green	Device is on-line and allocated to a master
Connection Time-out	Flashing Red	One or more I/O connections are in the time-out state.
Critical Communication Failure	Red	Failed communication

DIA : Diagnostic Status LED

Status	LED is	To indicate
Hardware Error	Flashing Red	Device has hardware checking error. (with MOD led is red.)
Expansion Module Error	Flashing Red	Device has expansion module error. (with IOS led is red.)
IO Configuration Error	Flashing Red	Failed to initialize expansion module - No Expansion Module - Overflow Input/Output size. (244bytes / 244bytes) - Overflow Configuration data size. (244bytes / 244bytes) - Too many expansion module. (Max 63 slot) - Mismatch vendor code between adapter and expansion module.

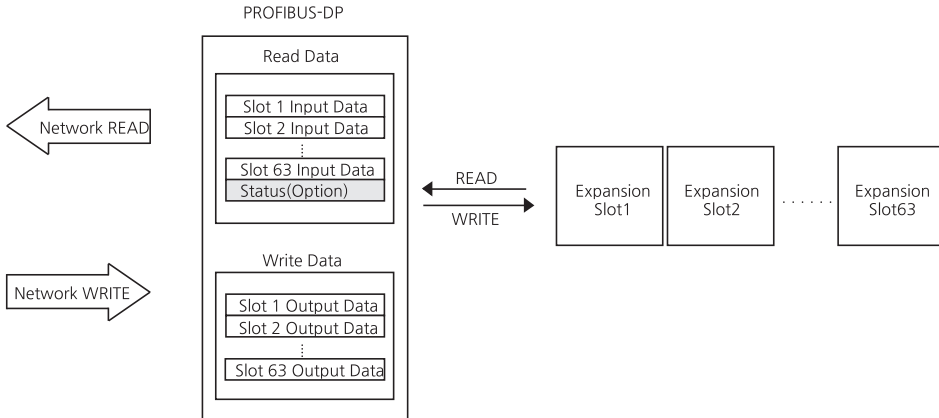
IOS : Expansion Module Status

Status	LED is	To indicate
Not Powered No Expansion Module	Off	Device has no expansion module or may not be powered
On-line, Do not Exchanging I/O	Flashing Green	Communication is normal but does not exchanging I/O data. (Passed the expansion module configuration)
Connection, Run Exchanging I/O	Green	Exchanging I/O data.
Connection Fault during Exchanging I/O	Red	One or more expansion module occurred in fault state - Changed expansion module configuration - Fn-Bus communication failure
Expansion Configuration Failed	Flashing Red	Failed to initialize expansion module - Detected invalid expansion module ID - Overflowed Input / Output Size (244bytes / 244bytes) - Too many expansion module - Initial protocol failure - Mismatch vendor code between adapter and expansion module

Field Power, System Power LED : Field Power, System Power Status LED

Status	LED is	To indicate
Not Supplied Field Power	Off	Not supplied 24Vdc field power, 5Vdc system power.
Supplied Field Power	Green	Supplied 24Vdc field power, 5Vdc system power.

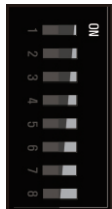
Mapping Data into the Image Table



Dip Switch



Terminating Resistance	1	2
Applied	On	On
Not applied	Off	Off



Node ID	1	2	3	4	5	6	7	8
1	On	Off	Off	Off	Off	Off	Off	Off
2	Off	On	Off	Off	Off	Off	Off	Off
~								
125	On	Off	On	On	On	On	On	Off

RS232 Port for MODBUS/RTU, Touch Panel or IO Guide



Pin #1
Pin #2
Pin #3
Pin #4

RS232		
Pin#	Signal Name	Description
1	Reserved	-
2	TXD	RS232 TXD
3	RXD	RS232 RXD
4	GND	RS232 GND