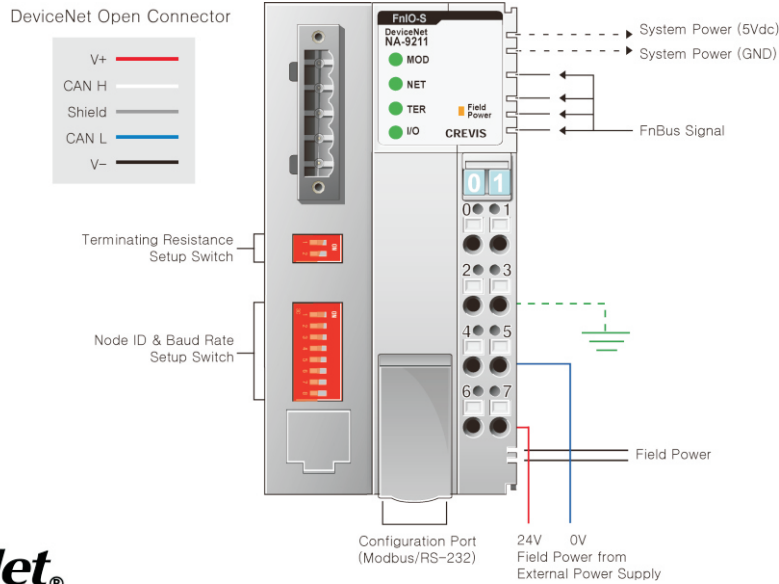


NA-9211, NA-9212

DeviceNet Network Adapter, 32 bytes input and 32 bytes output (NA-9211)
 252 bytes input and 252 bytes output (NA-9212)



The Wiring diagram of NA-9211 and NA-9212 are the same.



Item	NA-9211	NA-9212											
Interface Specifications													
Adapter Type	Group 2 Only Slave												
Max. Expansion Module	32 Slots												
Max. Input Size	NA-9211 : 32 bytes, NA-9212 : 252 bytes												
Max. Output Size	NA-9211 : 32 bytes, NA-9212 : 252 bytes												
Max. Length Bus Line	Max.100m@500Kbps, Max.250m@250Kbps, Max.500m@125Kbps												
Max. Nodes	64 nodes												
Communication Speed	125Kbps, 250Kbps, 500Kbps, auto baud supported												
Network Protocol	Poll, Bit-Strobe, Cyclic, COS												
Interface Connector	5pin Open male connector												
Node MAC ID Setup	DIP Switch												
Terminating Resistance Setup	DIP Switch												
Indicator	4 LEDs 1 Green/Red, Module Status (MOD) 1 Green, Network Status (NET) 1 Green, Terminating Resistance Status (TER) 1 Green/Red Expansion I/O Module Status (I/O) 1 Green, Field Power Status												
Module Location	Starter module - left side of FnIO system												
Field Power Detection	About 11Vdc												
Configuration Tool	IO Guide Pro												
Configuration Port	<table border="1"> <tr> <td rowspan="5">Modbus/RS 232</td> <td>Node</td> <td>1 (fixed)</td> </tr> <tr> <td>Baud Rate</td> <td>115200 (fixed)</td> </tr> <tr> <td>Data Bit</td> <td>8 (fixed)</td> </tr> <tr> <td>Parity Bit</td> <td>No parity (fixed)</td> </tr> <tr> <td>Stop Bit</td> <td>1 (fixed)</td> </tr> </table>		Modbus/RS 232	Node	1 (fixed)	Baud Rate	115200 (fixed)	Data Bit	8 (fixed)	Parity Bit	No parity (fixed)	Stop Bit	1 (fixed)
Modbus/RS 232	Node	1 (fixed)											
	Baud Rate	115200 (fixed)											
	Data Bit	8 (fixed)											
	Parity Bit	No parity (fixed)											
	Stop Bit	1 (fixed)											
Temp Controller Support	NA-9211 : Not supported	NA-9212 : Supported											
General Specification													
System Power (from DeviceNet Cable)	Supply Voltage : 24Vdc nominal Supply Voltage Range : 16 ~28.8Vdc Protection : Output Current Limit (Min. 1.5A) Reverse Polarity Protection												
Power Dissipation	40mA Typical @24Vdc												
Current for I/O Module	1.5A @5Vdc												
Isolation	DeviceNet to internal logic : Non-isolation / Internal logic to I/O driver : Isolation												
Field Power	Supply Voltage : 24Vdc nominal Voltage Range : 11~28.8Vdc												
Max. Current Field Power	DC 10A Max												
Weight	140g												
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
No Power	Off	No power is supplied to the unit
Device 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 Power Not On-line	Off	Device is not on-line or may not be powered - Not completed the Dup-MAC_ID test yet
On-line, Not connected	Flashing Green	Device in on-line but has no connections in the established state - Passed the Dup-MAC_ID test - 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 - Duplicate MAC ID - Bus-off

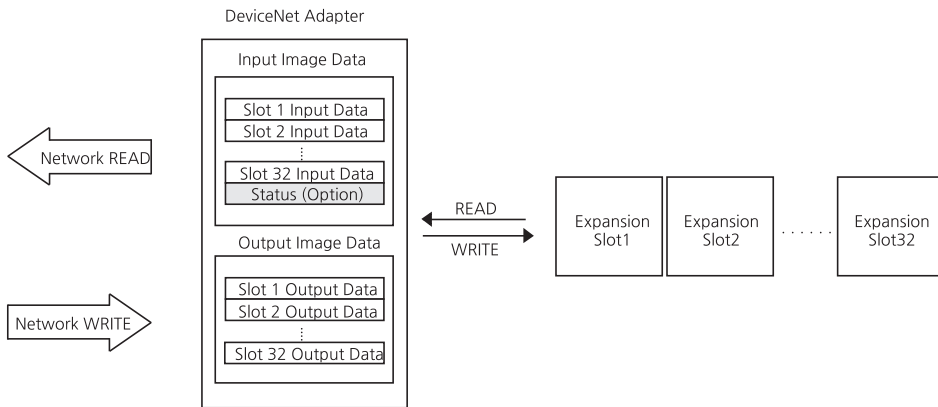
I/O : Expansion Module Status LED

Status	LED is	To indicate
Not Powered Not Expansion Module	Off	Device has no expansion module or may not be powered
Fn-Bus On-line, Do not Exchanging I/O	Flashing Green	Fn-Bus is Normal but does not exchanging I/O data (Passed the expansion module configuration)
Fn-Bus Connection, Run Exchanging I/O	Green	Exchanging I/O data
Fn-Bus 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 - Too many expansion module - Initial protocol failure - Mismatch vendor code between adapter and expansion module

Field Power : Field Power Status LED

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

Mapping Data into the Image Table



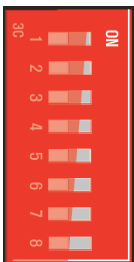
Terminating Resistance(112Ω)Setup Switch



Terminating Resistance Switch	#1	#2
Applied	On	On
Not applied	Off	Off

DeviceNet MAC ID & Baud Rate Setup

Each DeviceNet Adapter must have a unique MAC ID (from 0 to 63) so that it can be addressed independently from other nodes.



MAC ID	1	2	3	4	5	6	BAUD RATE	7	8
0	Off	Off	Off	Off	Off	Off	125kbps	Off	Off
1	On	Off	Off	Off	Off	Off	250kbps	On	Off
	~						500kbps	Off	On
63	On	On	On	On	On	On	AUTO	On	On