NIA-DI-01-1

32 channels – Discrete Input migration adapter from 8000 Series I/O toward Emerson DeltaV™

Description :

The **NIA-DI-01-1** migration adapter allows to migrate **TWO** 8000 Series I/O cards to **ONE** EMERSON DeltaV™ card avoiding to disconnect and reconnect I/Os of the existing terminal blocks.

The aim is to replace two 8000 Series I/O cards (16 channel DI) with reference NT-8121-DI-DC (NovaTech®) or 8121-DI-DC (GE) with one Emerson DeltaV™ card whose reference is **VE4001S2T2B7** (32 channel DI card).

The main advantages of the **NIA-DI-01-1** for such migration are as follow :

- The two existing DI terminal blocks and their associated wires are just moved (unplugging / re-plugging) from the existing carrier to the DeltaV™ carrier without any modification of the wiring.
- Since the wiring is not affected, the I/O testing times are reduced.
- The **NIA-DI-01-1** does not affect the DeltaV™ card input specifications.

The status of each of the 32 inputs is indicated by a yellow LED on the front panel.

The NIA-DI-01-1 is composed of two main parts :

NIA-DI-01-1 Baseplate

DI Application Board

Product options :

Option **-1** : *NIA-DI-01-1* Standard version
Option **-VSH :** *NIA-DI-01-1-VSH* Conformal coating (Tropicalization)

Technical specifications :

Dimensions :

Height : 210mm

Width : 83mm

Depth : 68mm (74mm including the fastening screw head)

Weight :

300 g (without terminal blocks)

Temperature range :

Operating : 0°C to 50°C

Storage : -10°C to 50°C

Humidity :

Up to 90% (no condensation)

Input Specifications :

Number of channels : 32

The input specifications are the same as the DI card

Electrical Insulation :

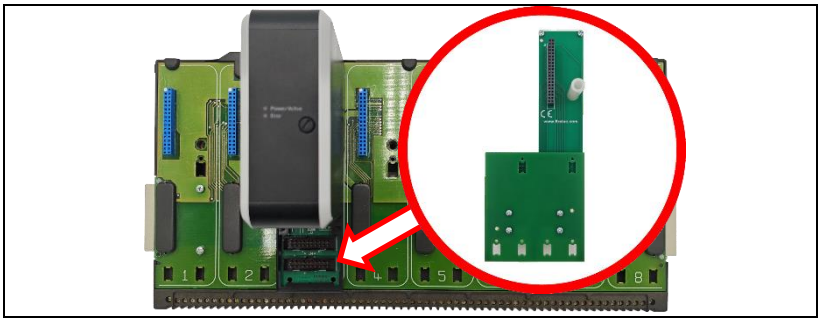
750Vac between each input (not connected)

Connection to the DCS or to the PLC :

The NIA-DI-01-1 is directly plugged in the two HE1020 male connectors of the 32Ch DI card Mass Terminal Block (VE4001S2T2B7)

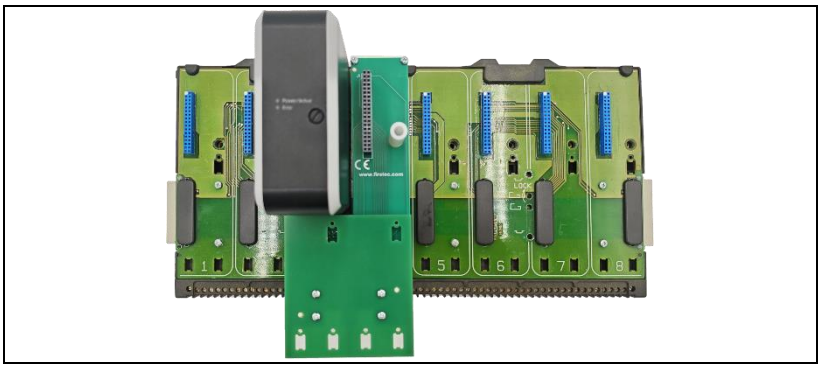
Installation of the NIA-DI-01-1 :

1



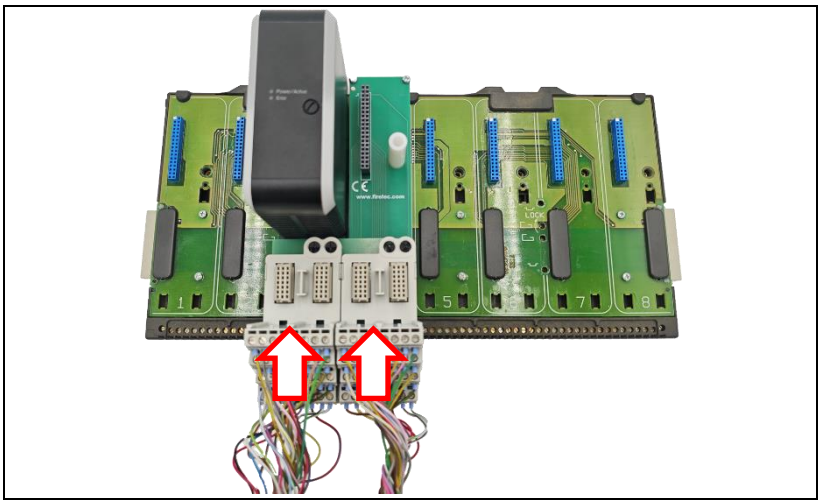
The NIA-DI-01-1 baseplate plugs directly into the two HE1020 connectors of the DeltaV™ DI Mass Termination Block

2



The NIA-DI-01-1 baseplate is now inserted.

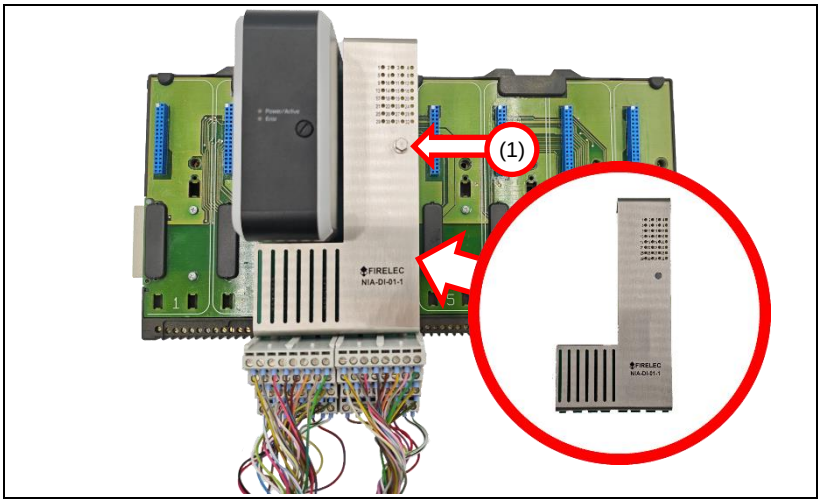
3



The existing terminal blocks (with wiring kept in place) are inserted in the slots designated for this purpose on the NIA-DI-01-1 baseplate

To secure the terminal blocks, simply slide them upwards.

4



The NIA-DI-01-1 Application Board is inserted into both the two terminal blocks and the NIA-DI-01-1 baseplate

The assembly is secured by a fastening screw(1)

Status of each channel is monitored by a yellow LED