

DIA-DO-01

8 channels - Discrete Outputs adapter

Description :

The **DIA-DO-01** interface adapter allows to connect up to 8 Discrete Outputs to a Distributed Control System (DCS), or a Programmable Logic Controller (PLC).

It is particularly suitable for migration of existing PROVOX™ DM card with reference as follow :

- **DM6461** : Discrete Output card

The main advantages of the **DIA-DO-01** for PROVOX™ migration are as follow :

- The existing wiring is kept connected to the front "DM" connector without modification.
- The existing loop drawings are slightly impacted allowing an easy and quick update of those.
- The maintenance processes and procedures can remain unchanged.

Simply unplug the HE1020 connected between the **DM6461** card and its terminal board and replace the old **DM6461** card with the new **DIA-DO-01** adapter. Then connect the HE1020 from terminal board to the **DIA-DO-01** adapter.

The **DIA-DO-01** interface adapter can be connected to an 8 channel DO card of a DCS or a PLC using one SUBD 25 pin male connector.

The connection is done using a shielded cable, with a SUBD25F connector at one end, and labeled flying wires or a suitable connector matching with the new system DO card used at the other end.

A yellow LED indicates the command status of each channel on the front panel.

The presence of the 24Vdc power supply is visualized by a green LED also on the front panel.

Product options :

Option -1 : *DIA-DO-01-1* Standard product

Option **VSH** : Conformal coating (Tropicalization)

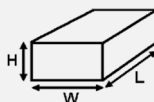
Technical specifications :

Dimensions :

Length : 290 mm

Width : 15 mm

Height : 150,5 mm



Weight :

200 g

Temperature range :

Operating : 0°C to 50°C

Storage : -20°C to 60°C

Humidity :

Up to 90% (no condensation)

Mounting :

Replace the DM6461-A1 card in the existing file

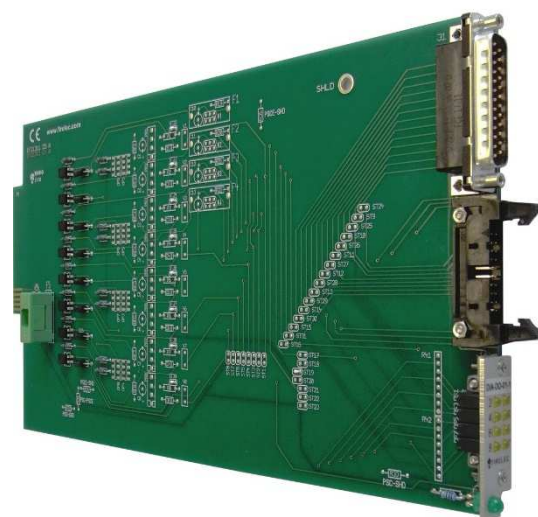
Connection to the DCS or to the PLC :

To a Discrete Output card (8-channels or a 1/2 16-channels...) :

1 x Sub-D 25 pin male connector with UNC 4-40 female lock.

Connection to the DCS or to the PLC :

1 x HE10-20 pin male connectors with locks for female connector, central polarization and strain relief.



Input specification :

Power supply voltage range : 21 to 28Vdc

Max consumption : 1A

Output specifications :

Permanent current per channel : 0,1A

Peak current : 1,5A

Max voltage : 35Vdc

Max voltage drop ("ON" status) : 0,25Vdc (at 0,1A)

Offset leakage current : 1µA

Protection :

By a 0,2A (5x20) 250V fuse and a 39V bidirectional transil diode

Insulation :

750 Vac between input and output

