

Instruction Manual

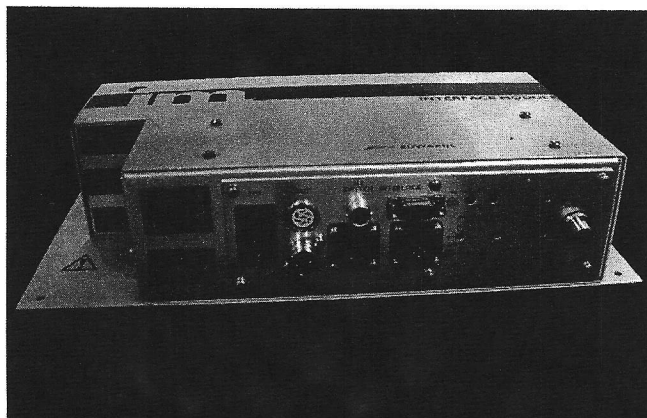
BOC Edwards Dry Pump DeviceNet™ Interface

Description

Edwards Dry Pump DeviceNet™ Interface

Item Number

D372-65-000



 **BOC EDWARDS**



1.2 Product description

The BOC Edwards Dry Pump DeviceNet™ Interface is designed for use with the BOC Edwards range of dry pumping systems, and allows you to connect the pumping system to other equipment (for example, your process tool or similar control equipment). The BOC Edwards Dry Pump DeviceNet™ Interface is an enclosure which contains an interface between the BOC Edwards Dry Pumping System network local to the pump and the DeviceNet™ network providing communication around the semiconductor process tool.

Refer to Figure 1 for recognition reference.

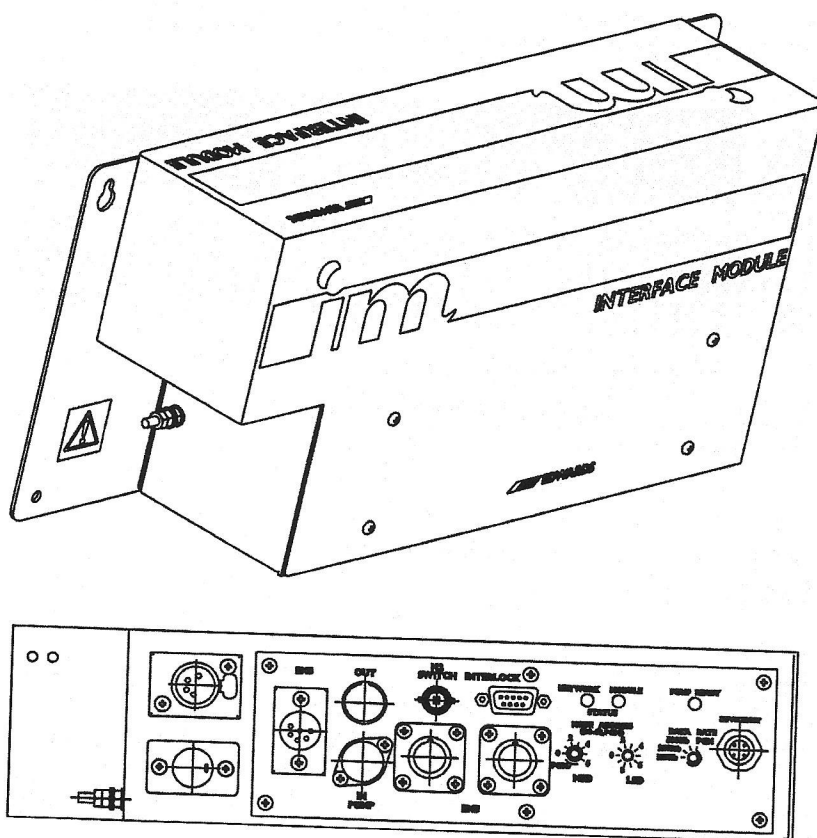


Figure 1 - Recognition diagram

1.3 Connectors**1.3.1 Edwards Dry Pumping System Connectors**

Two connectors are provided to allow the network to connect to and pass through the module to further equipment on the pump. Power is only drawn from this network to create an internal 'network present' signal. No power is drawn to operate the module.

1.3.2 DeviceNet™ Connector

A male micro connector is provided to connect the module to the DeviceNet™ network.

Power is drawn from the DeviceNet™ network to operate the module. This is isolated from the BOC Edwards Dry Pumping System power source.

Refer to the Open DeviceNet™ Vendor Association (ODVA) DeviceNet™ Specification for details of mating connectors and cabling required.

1.3.3 Interlock Connector

The interlock connector provides hardwired 'Pump Enable' input and combined 'Pump Running' and 'Nitrogen Flow OK' output signal. These signals are volt free contacts for direct interfacing to the tool.

Note: If you are installing this interface into pre 2005 systems and the interlock is required you will need to use the DeviceNet™ D type dongle.

1.3.4 Emergency Stop Connectors (EMS)

Two emergency stop connectors are provided to facilitate monitoring of the BOC Edwards Dry Pumping system Emergency Stop button by the tool.

1.3.5 Pump Out Connector

This connector is provided to control an optional BOC Edwards Gas Abatement system if installed.