

ISO-4 ANALOG ISOLATION CARD

Tecnadyne's ISO-4 card provides fully isolated analog control signals and 12vdc instrumentation power to as many as four Tecnadyne DC brushless motors used in thrusters, rotary & linear actuators and HPU's. Two or more ISO-4 cards can be used in a system with more than four DC brushless motors. The ISO-4 card accepts four, non isolated or noise sensitive +/-5v analog signals (as are often supplied by computer based D to A cards) and fully isolates these signals for correct operation of Tecnadyne DC brushless motors. The ISO-4 card also supplies four fully isolated 12vdc instrumentation power supplies, for use by the smaller Tecnadyne DC brushless motors that require 12vdc instrumentation power.



The ISO-4 card can be used in conjunction with Tecnadyne's Analog-8 card, allowing easy control of up to 8 DC brushless motors over an RS232, RS422 or RS485 data link.

The ISO-4 card is designed for installation in the customer's 1-atmosphere pressure housing (it is not pressure tolerant) and is supplied with all interface wiring installed on locking board mount connectors.

The ISO-4 card is also installed in the ISOMOD-4, ISOMOD-6 and ISOMOD-8 products manufactured by Tecnadyne. The ISOMOD products include a 2,000m rated 1-atmosphere pressure housing, bridge rectifier, a capacitor bank, fast blow power fuses, overvoltage protection, 1 or 2 of the ISO-4 cards, and optional Analog-8 card and necessary subsea connectors and cables. The ISOMOD products are designed to operate 4, 6 or 8 Tecnadyne DC brushless motors (such as thrusters) from unfiltered AC or DC supplies and from non-isolated analog control signals.

For additional information regarding system interface requirements and correct system wiring of systems to eliminate ground loops, please refer to the application notes on the Tecnadyne website. For additional questions not answered on the website, please contact the factory.

ISO-4 SPECIFICATIONS

Input

(4) non-isolated +/-5v analog control signals

12vdc, 1.5A non-isolated instrumentation power

Output

(4) fully isolated +/-5v analog control signals

(4) fully isolated 12vdc, 150mA instrumentation power supplies

Weight

1.7oz (48g) in air

Size

3.0in (7.6cm) wide,
4.0in (10.1cm) long,
1.0in (2.5cm) thick

ISO-4 ANALOG ISOLATION CARD DIMENSIONS

