



CUTE

I/O Controller Board

www.innova.no

The Innova I/O controller board is designed to provide a number of I/O's often required in subsea intervention control systems.

The board has 12 analogue inputs, 4 configured for 0-20 mA input and 8 configured for 0-10 V input. Other combinations of current / voltage inputs can be accomplished by altering resistor values on the board.

The unit also has 8 opto isolated digital inputs, relay drivers for 8 external relays, 8 on-board relays (typically for controlling power to sensors) and water alarm.

Key features

- 12 analogue inputs (can be delivered with other combinations)
- 8 drivers for external relays
- 8 sensor power outputs with relays
- Water alarm

Remote control is possible via RS-232 or multi drop RS-485 communication.

PHYSICAL I/O CONFIGURATION

- 12 analogue inputs with 12 bit resolution, 4 x 0 to 20 mA & 8 x 0 to 10 V
- 8 sensor power outputs each fitted with 2-pole relays and 2 A fuse
- 8 drivers for external relays (12 or 24 VDC coil)
- 8 opto isolated inputs for 24 V signal level
- 1 water alarm
- 1 RS-232 or RS-485 communication port to a host system
- 1 RS-485 port for communication with up to 4 Camera Controller slave boards

SOFTWARE FEATURES

- "Do All" function that read and write all I/O in one command
- Configurable power-up state
- Configurable loss of communication output state (keep current state or set predefined state)

POWER, CURRENT AND TEMPERATURE

Power supply voltage:	12 VDC
Current consumption:	25 mA
Temperature range:	0 °C to 70 °C

SIZE AND MOUNTING INTERFACE

Size (L x W x H): 160 x 100 x 12 mm

Mounting: Rail mounting on the short edges.
Alternatively mounted by 4 holes for M3 bolts, 1 in each corner 5 mm from the edges.
Connections on the long sides.

TERMINALS

Power : Phoenix FK-MC0,5/2-ST-2,5 connector

Serial port (mstr): Phoenix FK-MC0,5/5-ST-2,5 connector

Serial port (slave): Phoenix FK-MC0,5/3-ST-2,5 connector

Digital inputs: Phoenix FK-MC 0,5/8-ST-2,5 connector

Analogue inputs: Phoenix FK-MC 0,5/5-ST-2,5 connector

Relays: Phoenix FK-MC 0,5/10-ST-2,5 connector

External relays: Phoenix FK-MC 0,5/10-ST-2,5 connector

Water Alarm: Phoenix FK-MC 0,5/2-ST-2,5 connector