



**The 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 0-20mA input and 8 configured for 0-10V input. Other combinations of current / voltage inputs can be accomplished by altering resistor values on the board. The unit has also 8 opto isolated digital inputs, relay drivers for 8 external relays, 8 onboard relays (typically for controlling power to sensors) and water alarm.

Remote control is possible via RS232 or multi drop RS485 communication.

Technical specifications:

#### Physical I/O configuration

- 12 analogue inputs with 12 bit resolution, 4 x 0-20mA & 8 x 0 - 10V
- 8 sensor power outputs each fitted with 2-pole relays and 2A fuse
- 8 drivers for external relays (12 or 24VDC coil)
- 8 opto isolated inputs for 24V signal level
- 1 water alarm
- 1 RS232 or RS485 communication port to a host system
- 1 RS485 port for communication with up to 4 Camera Controller slave boards

## Technical specifications:

### 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)

### Size and mounting interface:

- Size: 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 corners. Connections on the long sides.

### Terminals:

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

