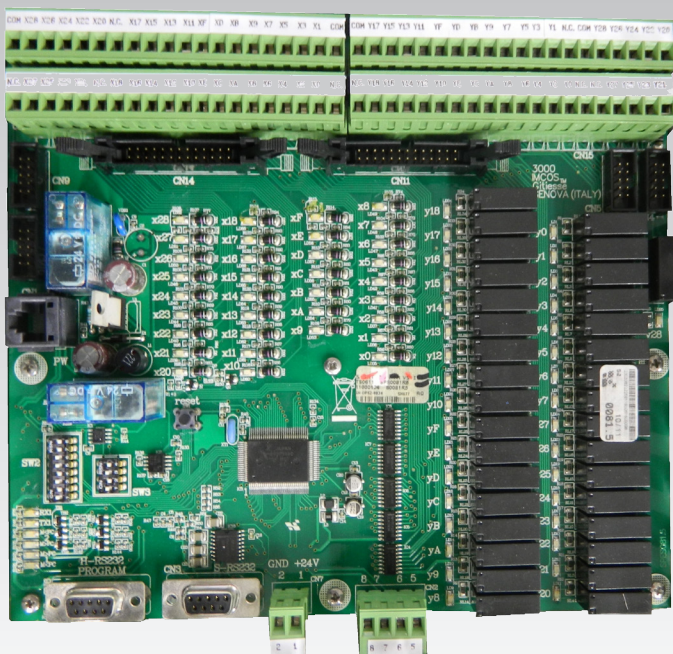




Features

- Microprocessor operated controller.
- Non-volatile memory.
- Up to 34 microcontrolled Inputs/Outputs to manage IMCOS system.
- Up to 15 slave boards management (IMCOS-3000/IMCOS-3020) to increase relay capabilities and interconnect other systems such as Talk Back.
- Slave addresses selected through Dip-Switches.
- 2 RS-232/RS485 interfaces for digital connection with peripherals and for system programming.
- Status LEDs for power and interface connections.
- Free contacts to connect external systems.
- Redundant configuration with Master and Back-up units. Back-up unit turns automatically into Master in case of fault.
- Master, Back-up and Slave mode operations selected through Dip-Switches.
- FAIL-SAFE operation mode to allow signal flow also in case of relay fault.
- Priority management between emergency messages from panels and alarm signals.

Product Description

IMCOS-3000 is a programmable control unit, responsible for all IMCOS relays and functions.

IMCOS-3000 is based on a PLC with dedicated software: functionalities associated to each input signal can be re-programmed on customer requirement.

IMCOS-3000 manages all the inputs from the different peripherals and external systems, both digital and analog, and converts them into instructions for IMCOS-3002 System Controller or for other components such as alarm panels, amplifiers, alarm monitors and talk back systems.

IMCOS™ System is type approved by seven marine class societies.



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Specification

Type:	PLC Card.
Mounting:	Rack mounting - 19" rack, with mounting support
Wiring:	Terminal strips for general purpose Input/Output. IDC Connectors to System Controller (IMCOS-3002) and Secondary processor unit (IMCOS-3000).
Power Supply:	24 V DC.
Power Consumption:	10 W.
Dimensions:	Width 216 mm, Height 190 mm.
Relay Capacity:	34 Input/Output 10 Inputs & 20 Outputs reserved for internal use (typical value)

IMCOS-3000 Dip-Switches Configuration

SW2 Master/Backup Configuration

1	2	3	4	5	6	7	8
ON	ON	OFF	ON	ON	OFF	OFF	ON

1	2	3	4	5	6	7	8
OFF	ON	ON	OFF	ON	ON	OFF	OFF

1	2	3	4	5	6	7	8
OFF	OFF	ON	OFF	ON	ON	OFF	OFF

1	2	3	4	5	6	7	8
ON	ON	ON	OFF	ON	ON	OFF	OFF

1	2	3	4	5	6	7	8
ON	OFF	ON	OFF	ON	ON	OFF	OFF

Program Mode - SW Upload

Master Run Mode - MAIN Controller

Master Run Mode - Backup Controller

Slave Run Mode

Slave Test Mode

SW3 Slave Board No/Address - 1 to 15 binary code - 1=OFF 0= ON - 1 least sign.

1	2	3	4
OFF	ON	ON	ON

1

...

2

1	2	3	4
ON	OFF	ON	ON

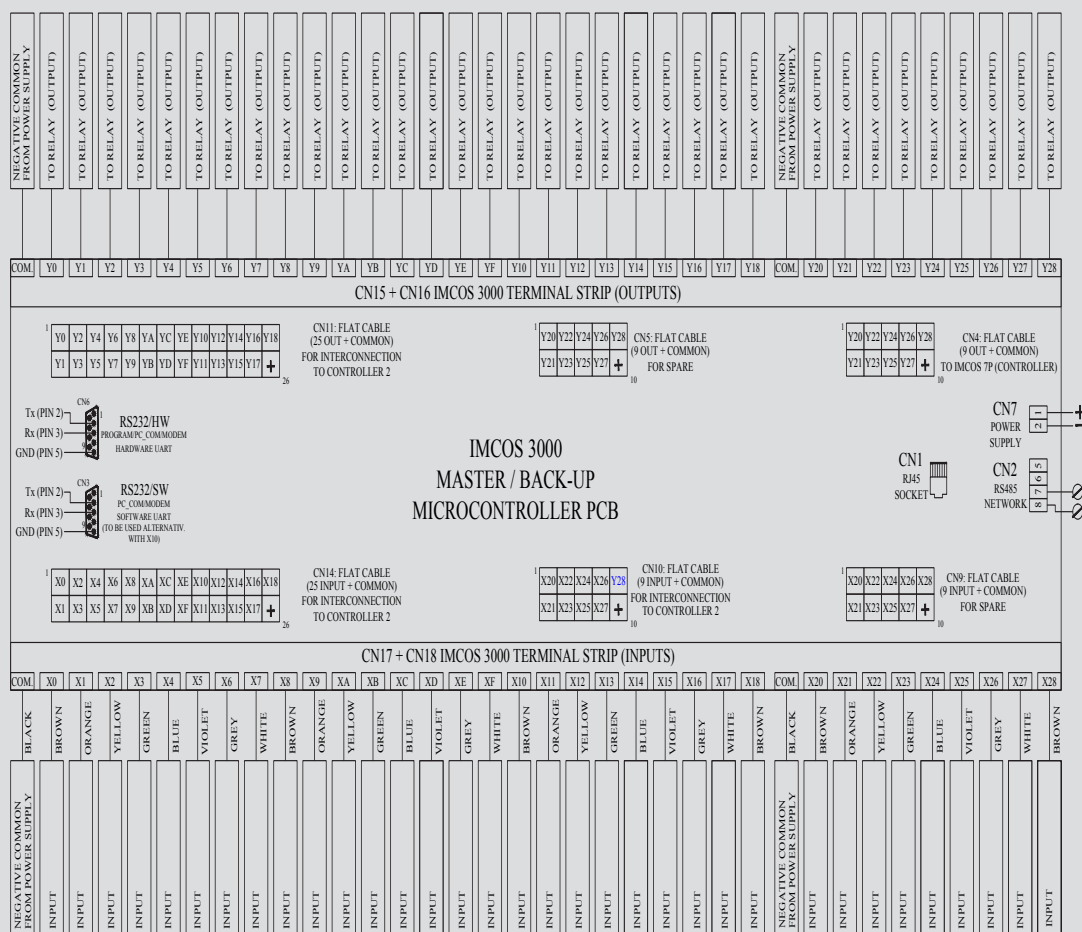
1	2	3	4
ON	OFF	OFF	OFF

14

1	2	3	4
OFF	OFF	OFF	OFF

15

IMCOS-3000 Wiring



Typical value of 10 Inputs and 20 Outputs reserved for internal wiring.

Relay capacity can be extended through the use of slave controller card connection.

Ordering Requirements

The following code is designed to help in selection of the correct unit. Build up the reference number by inserting the code for each component into the appropriate box.

Model

IMCOS-3000