

Navigation Controller Unit



GENERAL DESCRIPTION

The Navigation Controller Unit (NCU) is the interface between the acoustic instruments, sensors and the Navigation Computer. In addition to accurately time stamping incoming data from external devices such as GPS, the NCU also provides power and communications for ship-borne acoustic transceivers.

A range of hardware I/F cards are available for interfacing Sonardyne transceivers and external sensors. By simply plugging these cards into the rear of the unit, the role of the Navigation Controller can be transformed from supporting simple to complex acoustic operations.

For certain DP and drilling operations, the NCU can be configured to offer dual and triple redundancy.

Key Features

- ▀ The heart of **Fusion**
- ▀ Interfaces all sensors and acoustic transceivers to the outside world
- ▀ Accurate time stamping for next generation tracking methods
- ▀ Houses sensor specific interfaces
- ▀ Provides power and communications to acoustic transceivers
- ▀ Configurable for dual and triple redundancy

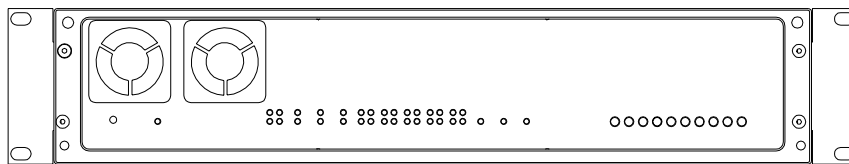
Designed for

Fusion

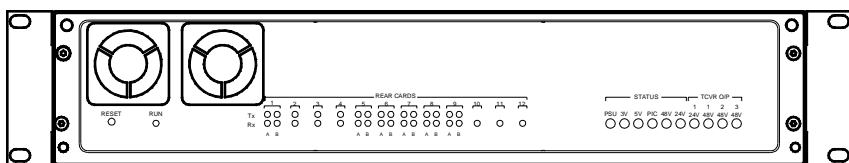
Sonardyne
SOUND IN DEPTH

TECHNICAL SPECIFICATION

Front



Rear



Features		Type 8020 Navigation Controller
Processor		Motorola Coldfire MCF5307 running at 70MIPS
Memory		One Single Date Rate (SDR) DIMM Socket fitted with 32Mb SDRAM
Motherboard		Proprietary Sonardyne Type 8020-046
Ports and Connectors		AC mains IEC power connector socket 12 x Interface card connectors
Power Supply		Auto sensing AC input voltage 100-240V, 50-60Hz Max Current; 0.5A @ 240V, 1A @ 110V
Environmental Specifications	Operating	0° to 35°C (32° to 95°F)
	Storage	-40° to 65°C (-40° to 149°F)
	Relative Humidity	20% - 80% (non-condensing)
	Shock	10G acceleration peak to peak 5-17Hz, 0.1" double amplitude displacement 17-640Hz, 1.5G acceleration peak to peak
Safety		Complies with EN61010-1
EMC		Complies with Immunity & Emission requirements of EN60945
Dimensions		482mm (W) x 88mm (H) x 384mm (D)

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