3005050028

Marine Master Clock 70000

123378-01 Marine Master Clock 70000
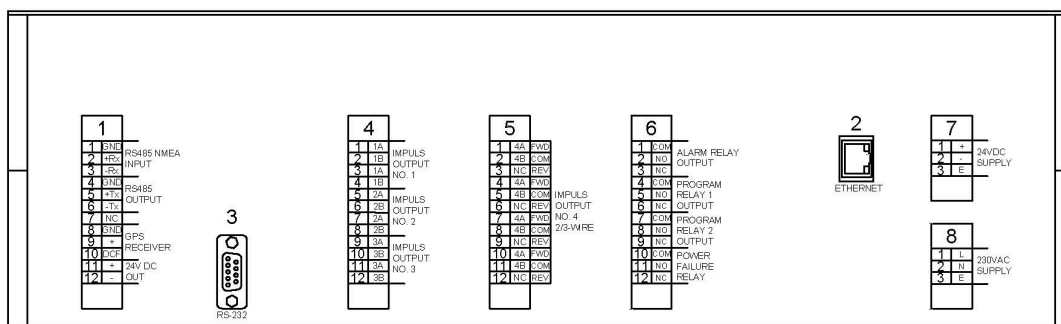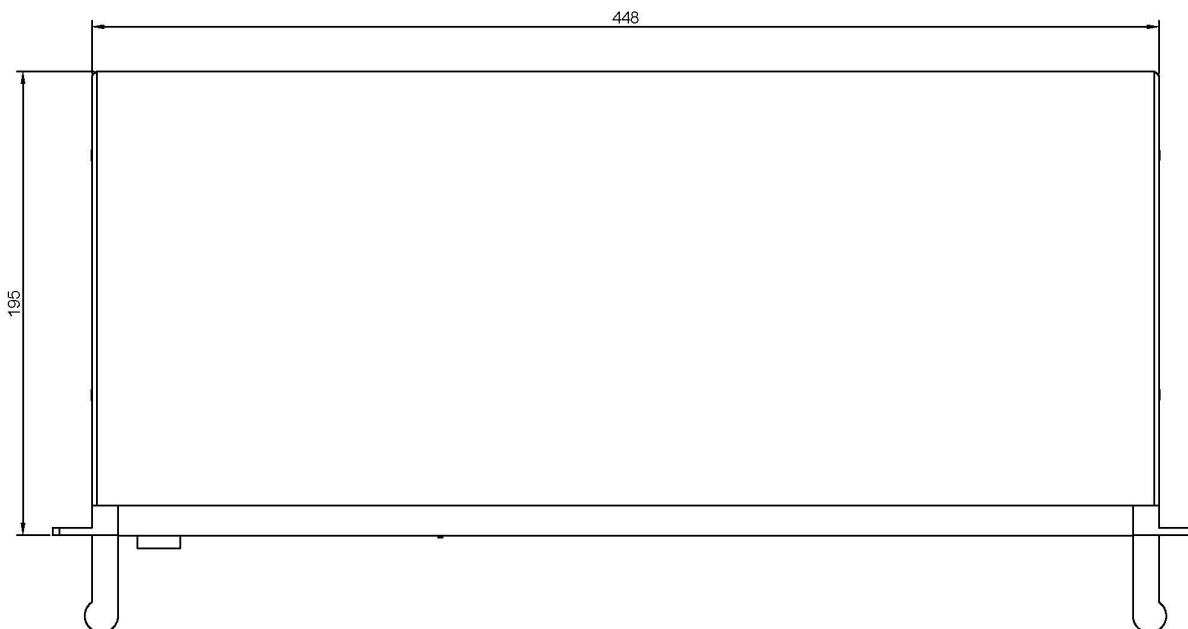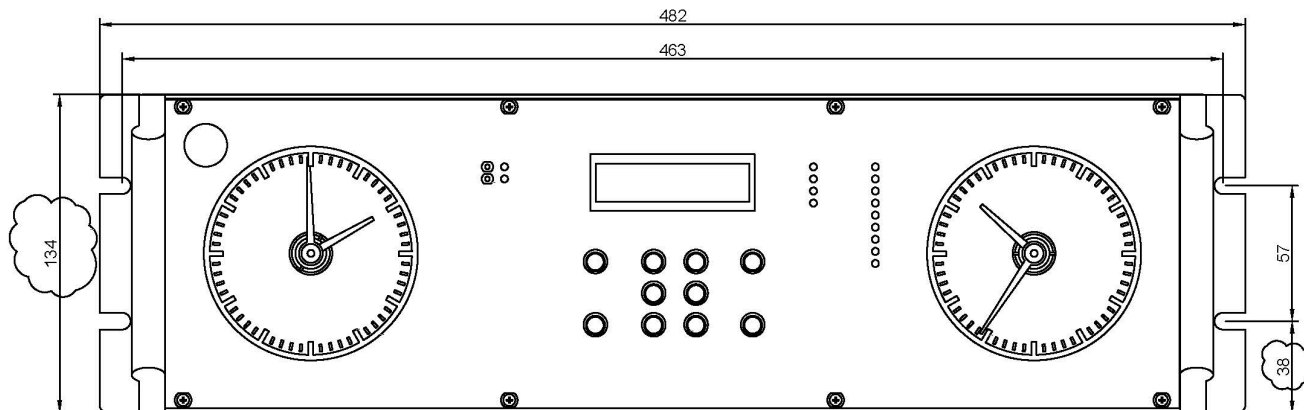

Description

- ✓ Accuracy +/- 0.1 sec./24 hours
- ✓ Wide range of different slave clocks (digital, 65, Ex-proof)
- ✓ Easy cabling and calibration
- ✓ Accessories and options like radio or satellite
- ✓ Signal receivers, RS232C/RS485 interface
- ✓ Alarm outputs, etc.
- ✓ Automatic summer-winter time change-over
- ✓ LAN connection (70000L)

Marine Master Clock is the ideal solution for distribution of both Local and UTC time on board ships. The Master Clock is equipped with several outputs and inputs for control of Slave Clocks as well as distribution of time to computers and other equipment needing the correct time. The four Slave Clock outputs can be individually programmed for different types of clocks. External radio receivers / time synchronisation sources can be connected when higher accuracy is needed.

The clock is also used for the control and regulation of various energy consumers such as electrical striking plates and buzzers for pause signalling. The master Clock has a built-in yearly programmer with two relay outputs.

The Master Clock is equipped with 10 buttons and a 2 x 16 character LCD. To facilitate the change of time zones, two of the buttons are dedicated to this purpose. A light dimmer makes it possible to adjust the background-illumination to the surrounding light level.

Technical Dimensions

Dimensions: 482, 463, 134, 57, 38, 448, 195

Connector 1 — RS485 NMEA INPUT / RS485 OUTPUT / GPS RECEIVER / 24V DC OUT

Pin	Label
1	GND
2	+Rx
3	-Rx
4	GND
5	+Tx
6	-Tx
7	NC
8	GND
9	+
10	DCF
11	+
12	-

Connector 3 — RS-232

Connector 4 — IMPULS OUTPUT NO.1 / IMPULS OUTPUT NO.2 / IMPULS OUTPUT NO.3

Pin	Label
1	1A
2	1B
3	1A
4	1B
5	2A
6	2B
7	2A
8	2B
9	3A
10	3B
11	3A
12	3B

Connector 5 — IMPULS OUTPUT NO.4 2/3-WIRE

Pin	Label	
1	4A	FWD
2	4B	COM
3	NC	REV
4	4A	FWD
5	4B	COM
6	NC	REV
7	4A	FWD
8	4B	COM
9	NC	REV
10	4A	FWD
11	4B	COM
12	NC	REV

Connector 6 — ALARM RELAY OUTPUT / PROGRAM RELAY 1 OUTPUT / PROGRAM RELAY 2 OUTPUT / POWER FAILURE RELAY

Pin	Label
1	COM
2	NO
3	NC
4	COM
5	NO
6	NC
7	COM
8	NO
9	NC
10	COM
11	NO
12	NC

Connector 2 — ETHERNET

Connector 7 — 24VDC SUPPLY

Pin	Label
1	+
2	-
3	E

Connector 8 — 230VAC SUPPLY

Pin	Label
1	L
2	N
3	E

Note: Ethernet port 2 to be used for Type 123378-11 o.no.3005050029

Last revision date: 2023-07-31 23:38

Specifications

GENERAL

Crystal frequency	T4,915200 MHz
Accuracy	0,1 sek./24 hours (+20C°)
Microprocessor	HD6412394
Time memory	30 days (Back-up with Super Capacitor)
Impulse memory	72 hours
Ambient temperature	0° C to +50°C
Relative humidity	Max. 85% non-condensing
Case	19" case according to drawing 084477-00, material aluminium. H=3U
IP class	IP-20
Weight	5.6 kg
CE-approval, EMC	Emission according to EN61000-6-3, Immunity according to EN61000-6-2
Supply voltage	90-264VAC 50/60Hz (Standard) / 24V DC
Power Consumption	65W (max)

ORDER NUMBER	DESCRIPTION	SHIP WEIGHT
3005050028	70000 Marine Master Clock	5.6 kg
Optional equipment:		
3005050029	70000L Marine Master Clock with network time server	5.6 kg
3005050031	70100 GPS receiver for master clock	0,3 kg
Slave clocks	See catalogue	

Accessories

122980-60 GPS/GNSS receiver

Master Clock System