



г. Санкт-Петербург

ООО "АТ-ПА"

WEB: WWW.AT-PA.RU

E-mail: SALES@AT-PA.RU

Marine engine telegraph system

System composition

No.	Name & specification	Type	Weight	IP Rating
1.	Transmitter of marine main engine telegraph	MCL-1AC-Q	1.1kg	IP22
2.	Transmitter of marine double main engine telegraph	MCL-1/2AC-Q	1.5kg	IP22
3.	Receiver of marine main engine telegraph(Flush type)	MCL-1AH-Q	1.3kg	IP22
4.	Receiver of marine main engine telegraph	MCL-1AH-G	1.1kg	IP44
5.	Receiver of marine double main engine telegraph	MCL-1/2AH	0.8kg	IP22
6.	Repeater of marine main engine telegraph	MCL-1AF-Q	0.7kg	IP22
7.	Repeater of marine double main engine telegraph	MCL-1/2AF-Q	0.8kg	IP22
8.	Stabilized voltage supply	DF-2	2.1kg	IP22
9.	Flash light and buzzer unit	SG-3C	0.9kg	IP44

Functional description

- ① The system orders from wheel house to Engine room and respond the speed from Engine room to Wheel house.
- ② mcl main Telegraph has 11 levels: astern dead slow, astern slow, astern half, astern full, stand by, stop, finished, ahead dead slow, ahead slow, ahead half, ahead full.
- ③ In event of special condition, the present speed of main engine can be sent from engine room to Wheel house, and respond from wheel house.
- ④ Wrong-way alarm: When the forward or astern signal is not synchronous detection by gear case of M/E and Main engine telegraph receiver, The main engine telegraph transmitter will send out order error alarm signal. Signal of M/E's gear case must be estimate obey the input detection signal of Main engine telegraph receiver.
- ⑤ Power failure alarm: when the main power is fault, It could switchover to emergency power automatically, and Main engine telegraph transmits send out visual and audio signal of power failure alarm.
- ⑥ Light adjustable: the indicator in the wheel house panel can be adjuste
- ⑦ VDR(RS485). The default is the 0183 communication protocol.
- ⑧ Receiver output a pair of passive closed contact and a pair of active contact (DC24V 1 A).
- ⑨ Self-check and out-of-step status: if the system is not in the "finished car" position, it will be lost.

Functional description

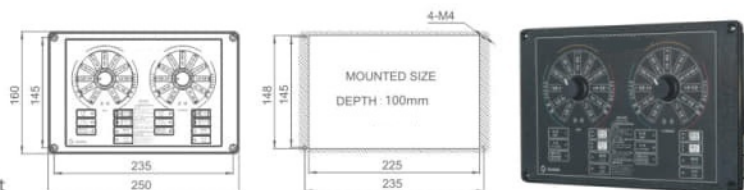
- ① The system orders from wheel house to Engine room and respond the speed from Engine room to Wheel house.
- ② mcl main Telegraph has 11 levels: astern dead slow, astern slow, astern half, astern full, stand by, stop, finished, ahead dead slow, ahead slow, ahead half, ahead full.
- ③ In event of special condition, the present speed of main engine can be sent from engine room to Wheel house, and respond from wheel house.
- ④ Wrong-way alarm: When the forward or astern signal is not synchronous detection by gear case of M/E and Main engine telegraph receiver, The main engine telegraph transmitter will send out order error alarm signal. Signal of M/E's gear case must be estimate obey the input detection signal of Main engine telegraph receiver.
- ⑤ Power failure alarm: when the main power is fault, It could switchover to emergency power automatically, and Main engine telegraph transmits send out visual and audio signal of power failure alarm.
- ⑥ Light adjustable: the indicator in the wheel house panel can be adjust.
- ⑦ VDR(RS485). The default is the 0183 communication protocol.
- ⑧ Receiver output a pair of passive closed contact and a pair of active contact (DC24V 1 A).
- ⑨ Self-check and out-of-step status: if the system is not in the "finished car" position, it will be lost.

MCL-1/2AC-Q Transmitter of marine main engine telegraph

Specification

Colour: Dull black
 Shell material: ABS
 Power supply: AC220V $\pm$ 10%, DC24V $\pm$ 10%
 Alarm sound level: $\geq$ 75dB
 IP rating: IP22
 Power consumption: 50W

When transmitter and receiver are not synchronous it will send out wrong-way alarm; Power failure alarm and fault alarm.

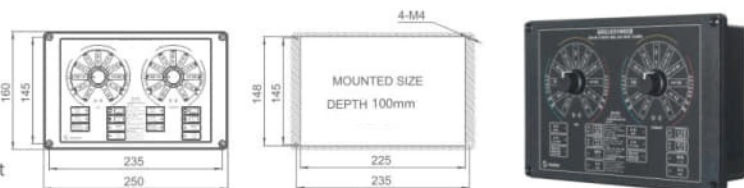


MCL-1/2AH Receiver of marine main engine telegraph

Specification

Colour: Dull black
 Shell material: ABS
 Alarm sound level: $\geq$ 75dB
 IP rating: IP22

When transmitter and receiver are not synchronous it will send out wrong-way alarm.

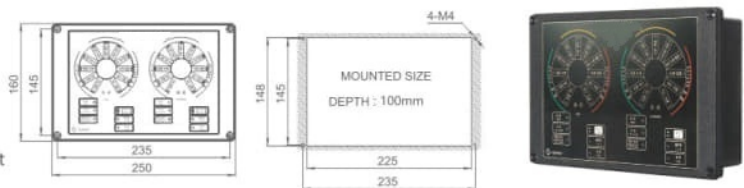


MCL-1/2AF-Q Repeater of marine main engine telegraph

Specification

Colour: Dull black
 Shell material: ABS
 Alarm sound level: $\geq$ 75dB
 IP rating: IP22

When transmitter and receiver are not synchronous it will send out wrong-way alarm.

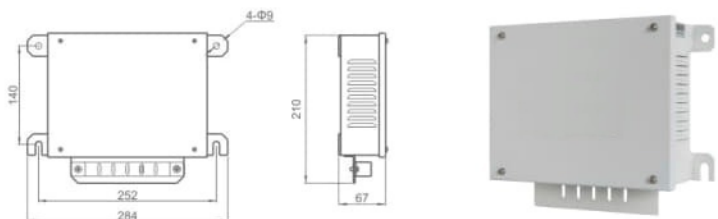


DF-2 Stabilized voltage supply

Specification

Colour: white RAL7035
 Shell material: Q235B
 Power supply: AC220V $\pm$ 10%
 IP rating: IP22
 Power consumption: 50W

It could change AC220V to DC24V, and it has Stabilized voltage output (Only two main engine telegraph is available)

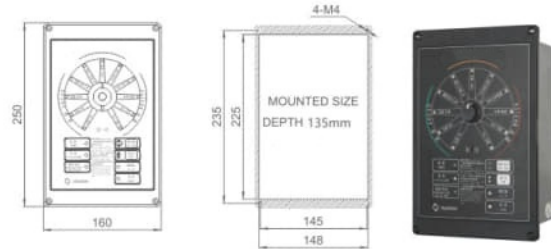


MCL-1AC-Q Transmitter of marine main engine telegraph

Specification

Colour: Dull black
 Shell material: ABS
 Power supply: DC24V+10%
 Alarm sound level: $\geq 75\text{dB}$
 IP rating: IP22

When transmitter and receiver are not synchronisit will send out wrong-way alarm;Power failure alarm and fault alarm.

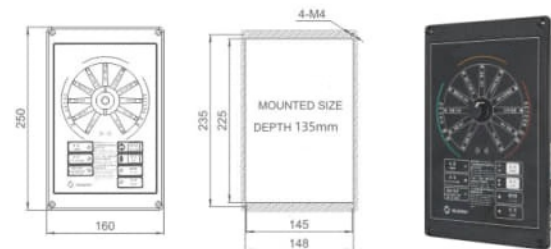


MCL-1AH-Q Receiver of marine main engine telegraph

Specification

Colour: Dull black
 Shell material: ABS
 Alarm sound level: $\geq 75\text{dB}$
 IP rating: IP22

When transmitter and receiver are not synchronisit will send out wrong-way alarm.

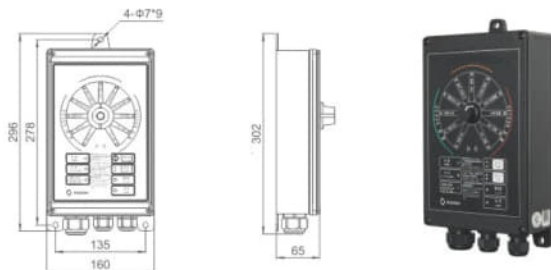


MCL-1AH-G Receiver of marine main engine telegraph

Specification

Colour: Dull black
 Cable gland: 2-PG16,1-PG25
 Shell material: ABS
 Alarm sound level: $\geq 75\text{dB}$
 IP rating: IP44

When transmitter and receiver are not synchronisit will send out wrong-way alarm.

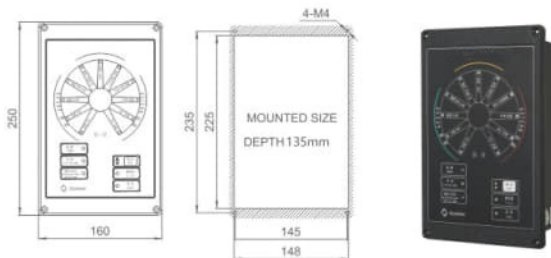


MCL-1AF-Q Repeater of marine main engine telegraph

Specification

Colour: Dull black
 Shell material: ABS
 Alarm sound level: $\geq 75\text{dB}$
 IP rating: IP22

When transmitter and receiver are not synchronisit will send out wrong-way alarm.

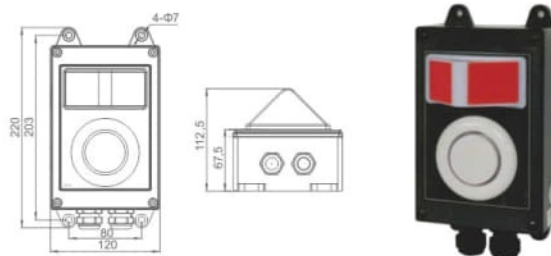


SG-3C Flash light and buzzer unit

Specification

Colour: Dull black
 Shell material: ABS
 Cable gland: 2-M20x1.5
 Power supply: DC24V
 IP rating: IP44

With indicator light and buzzer, with one set of passive contact output



MCL Marine Engine Telegraph Ststem Wiring Schematic Diagram

