Development, Production and Engineering of Industrial Electronics Croatia

EMERGENCY ENGINE TELEGRAPH ST-20

Monitoring and Control Program PN-10072E

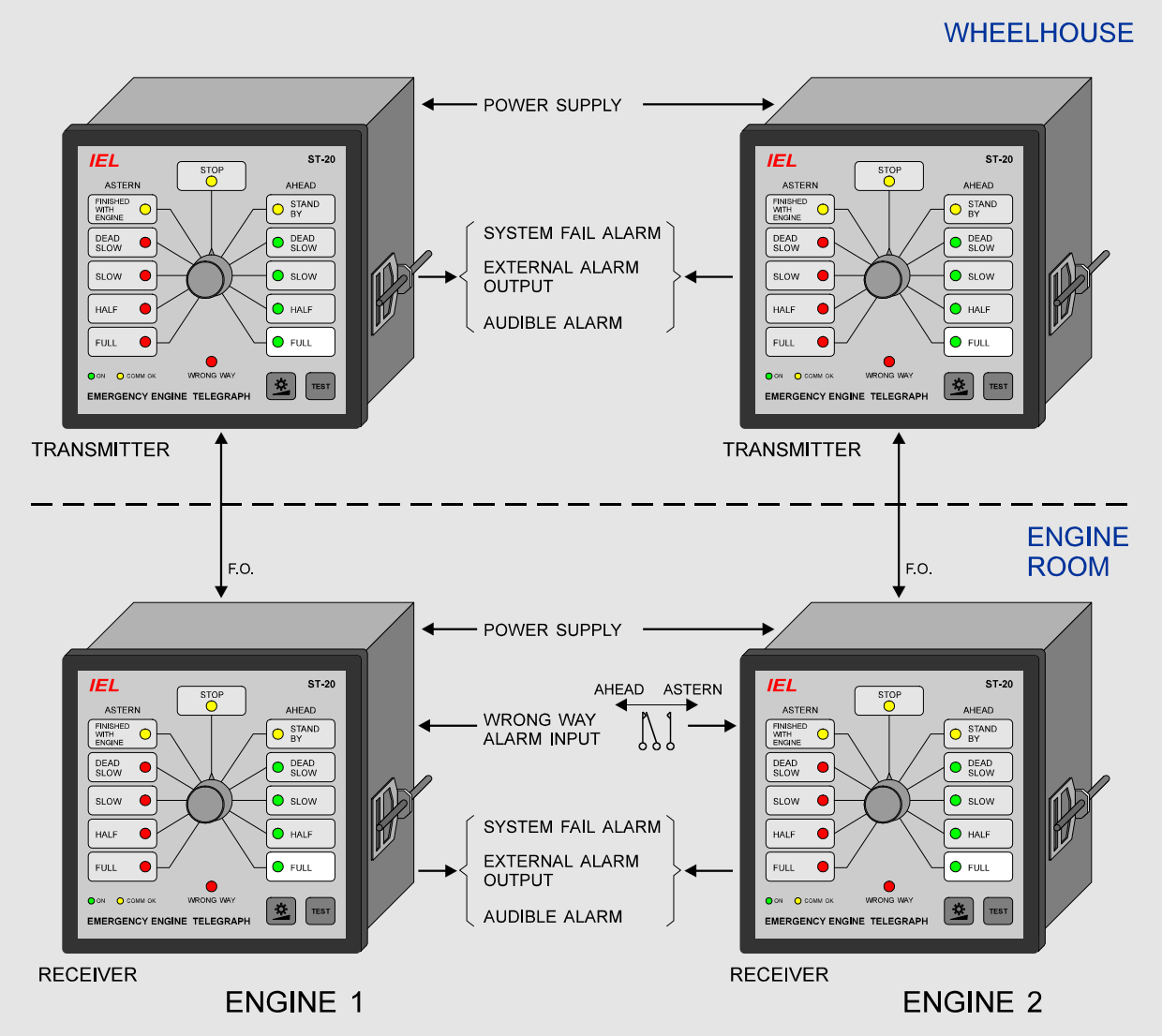

Figure 1. Emergency engine telegraph ST-20, system for two engines

Application and Main features

- transmission orders from transmitter unit in wheelhouse to receiver unit in control and engine room
- fiber optic communication between transmitter and receiver
- microprocessor alarm processing, self testing
- events list recordings with time stamps (option)
- communication with host computer (option)
- three relay output for audible, light flashing alarm and system fail alarm
- four digital inputs for wrong way alarm input
- dimmer for LEDs
- LEDs and buzzer test
- panel or bulkhead mounting

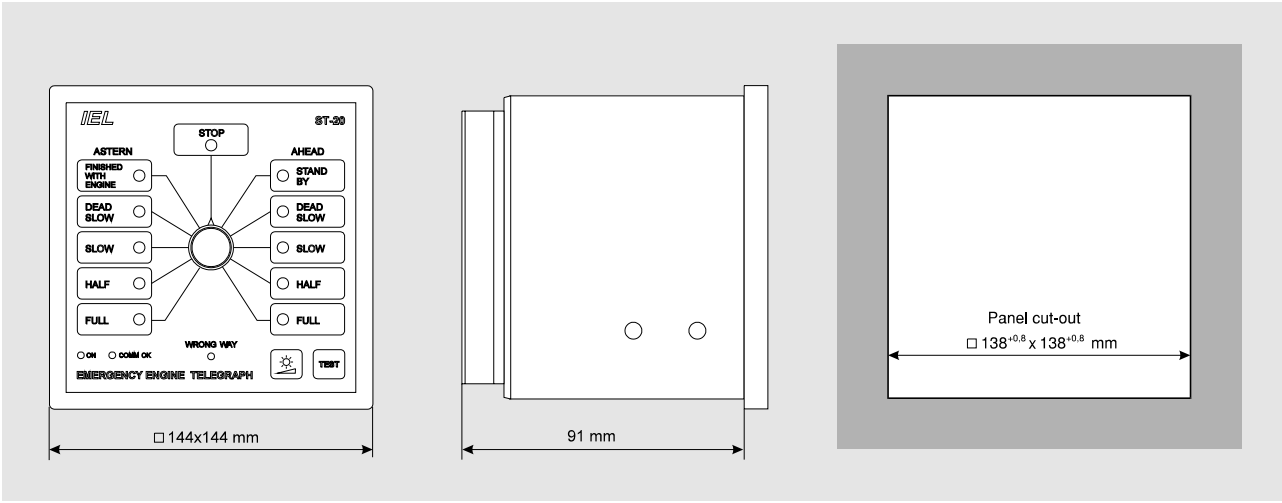

Figure 2. ST-20 - panel mounting

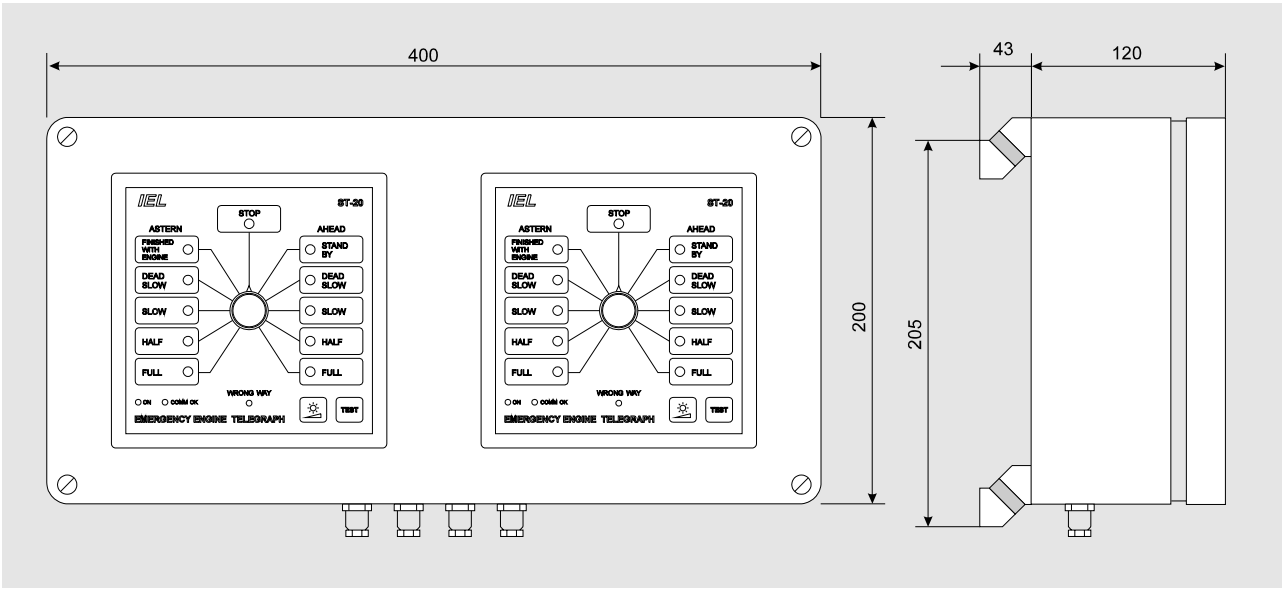

Figure 3. ST-20 - bulkhead mounting in engine room (option)

Specifications

Command setting.....11-pole rotary switch
Test button .....LEDs and buzzer test
Dimmer button.....LEDs dimming

Signalling
- commands .....LED red, green, yellow 5mm
- power ON.....LED green 3mm
- communication.....LED yellow 3mm
- wrong way.....LED red 5 mm

Relay outputs
- audible and light alarm.....changeover contact 250V, 5A
- external alarm .....changeover contact 250V, 5A
- system failure.....changeover contact 250V, 5A

Digital inputs
- wrong way.....potential free contact NO, NC
  contact supply from external power source

Recordings
- event list.....(option)

Communication.....RS 485, RS 232C, F.O. (option)
MODBUS RTU protocol

Power supply
- AC.....220V ili 110V, 50 do 60 Hz
- DC.....24VDC ±20 %, other on request
- consumption.....7 VA transmitter
  7 VA receiver

General data
- temperature range ....within guaranteed limits 0 do 60ºC
  storage -40 do 80ºC
- relative humidity.....98 % without condensation
- resistivity against.....salt mist
  water dropping
  fungi and mould

- dimensions.....according to fig.2 and fig.3

Development, Production and Engineering of
Industrial Electronic
CROATIA, 10020 Zagreb, Froudeova 56, tel/fax +385 1 6520 688