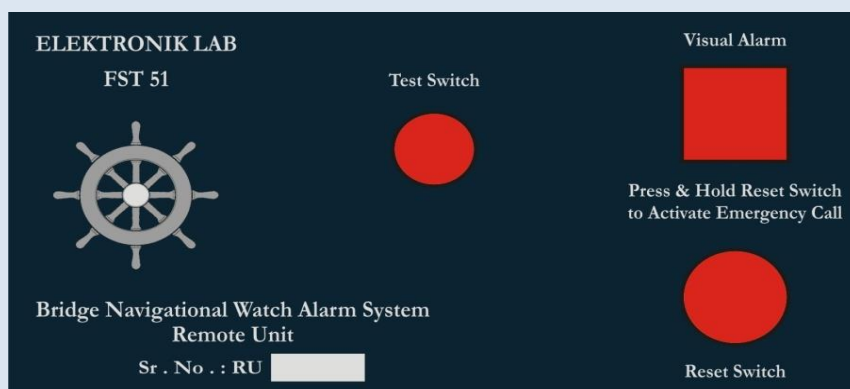




- 20 x 4 LCD Display with Backlight
- 4 x 2 Seven Segment Display
- Display of Operational Mode
- Display of Countdown Timer
- Display of SOG (GPS) in Kts.
- Display of Autopilot Status
- Dormant Period : 3 Mins. To 12 Mins.
- Manual Off / On Operational Mode
- Automatic Operational Mode
- 4 Key User / Service Interface
- Hardware (Lock) Protection
- Software (Password) Protection

- Visual / Audible Alarm Reset Switch on the Main Unit & Remote Units on the Bridge
- Emergency Call / Immediate Assistance Switch on Main Unit & Remote Units on the Bridge
- Test Switches on the Main Unit & Remote Units to Test (Simulate) the Visual & Audible Alarms



Features :

- External Motion Detector Interface
- Heading / Track Control System (Autopilot) Serial / Contact Closure / Voltage Interface Input
- Global Positioning System (GPS) Serial Interface Input
- VDR / S-VDR (\$BNALR,) Serial Interface Output
- Computer / External Software (\$ELFST,) Serial Interface Output (Proprietary)
- Remote Units for Conning Position on the Bridge , Workstation for Navigating and Manoeuvring on the Bridge (Optional) , Workstation for Monitoring on the Bridge (Optional) , Bridge Wings (Optional) , Captain's / Master's Location , Backup Officer 1 Location (Optional) , Backup Officer 2 Location (Optional) and for the Location of further Crew Members
- To be fitted on all Cargo Ships of 150 gross tonnages and above as well as on all Passenger Ships , irrespective of the size.

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Technical Specifications :

- **Power Supply**
 - Supply Voltage : 24 V DC
 - Protection : Fuse (Current Limit) and Reverse Polarity
- **Display**
 - 20 x 4 Character Liquid Crystal Display (LCD) with Backlight
 - 4 x 2 Seven Segment Display (SSD) with Illumination Intensity Control
- **User Interface**
 - 4 Key Interface : Up , Down , Escape & Enter Keys
 - Visual / Audible Alarm Reset Switch on Main Unit & Remote Units on the Bridge
 - Emergency Call / Immediate Assistance Switch on Main Unit & Remote Units on the Bridge
 - Test Switches : Tests (Simulates) Visual & Audible Alarms
- **Configuration**
 - Dormant Period : 3 Mins. To 12 Mins.
 - 2nd Stage to 3rd Stage Alarm Delay : 90 Secs. to 180 Secs.
 - Operational Modes : Manual Off (Always Off i.e. not operated under any circumstances)
Automatic (Activated / Inhibited by Autopilot and / or GPS)
Manual On (Always On i.e. in operation continuously)
- **Remote Units**
 - Conning Position on the Bridge
 - Workstation for Navigating and Manoeuvring on the Bridge (Optional)
 - Workstation for Monitoring on the Bridge (Optional)
 - Bridge Wings (Optional)
 - Captain's / Master's Location , Backup Officer 1 Location (Optional) , Backup Officer 2 Location (Optional)
 - Location of further Crew Members
- **Failure / Malfunction Alarms**
 - Mains DC Supply / Battery DC Supply Failure / Malfunction
 - External Motion Detector Tamper / Continuous Output Alarm
- **Date & Time Interface**
 - Source : GPS (\$GPRMC,) or Internal Real Time Clock (RTC)
- **Security**
 - Hardware (Lock) Protection : System On / Off using 2 Way Removable Key Switch
 - Software (Password) Protection : Service Setup Menu protected with 4 Digit Pass Code
- **External Motion Detector Interface**
 - No. of Interfaces : 2 Nos.
 - Sensor : Passive InfraRed (PIR) + MicroWave (MW)
 - Dimensions : 112 mm. x 66 mm. x 45 mm.
 - PIR + MW / Tamper Contact : Normally Open (NO) / Normally Closed (NC)
- **Heading / Track Control System (Autopilot) Interface Input**
 - Input Type : Serial (NMEA 0183) , Contact Closure or Voltage Input
 - Serial (NMEA 0183) Sentence : \$--HTC, or \$--HTD, @ 1200 bps. to 38400 bps. Baud Rate
- **Global Positioning System (GPS) Interface Input**
 - Input Type : Serial (NMEA 0183)
 - Serial (NMEA 0183) Sentence : \$GPRMC, or \$GPVTG, @ 1200 bps. to 115200 bps. Baud Rate
- **VDR / S-VDR (\$BNALR,) Interface Output**
 - Serial (NMEA 0183) Sentence : \$BNALR, @ 1200 bps. to 115200 bps. Baud Rate
 - Serial Standard : 2 x RS 232 + 2 x RS 422 (Buffered & Simultaneous)
 - Transmission Interval : 1 Sec. , 2 Secs. , 3 Secs. or Automatic
- **Computer / External Software (\$ELFST,) Interface Output (Proprietary)**
 - Serial Sentence : \$ELFST, (Proprietary) @ 1200 bps. to 115200 bps. Baud Rate
 - Serial Standard : 2 x RS 232 + 2 x RS 422 (Buffered & Simultaneous)
 - Transmission Interval : 1 Sec. , 2 Secs. , 3 Secs. or Automatic
- **Dimensions**
 - Main Unit : 222 mm. (width) x 185 mm. (height) x 106 mm. (depth)
 - Remote Unit : 197.5 mm. (width) x 90 mm. (height) x 45.5 mm. (depth)