The JHS-7 is a hand-held portable VHF radiotelephone for on-scene, life-saving two-way communication between survival craft, between survival craft and ship, and between ship and rescue boat in accordance with SOLAS convention.

The JHS-7 is of heavy duty design for use in maritime severe conditions and equipped with 13 single-frequency voice channels including Channel 16 (156.800 MHz.), providing 0.25 to one watt of transmitted power. This equipment can be used as an on-board communication equipment.

**FEATURES**

- **Thirteen Operating Channels**
  Thirteen single-frequency voice channels are provided including Channel 16 for calling and safety which can also be selected easily by an independent switch.

- **Heavy Duty Design**
  The JHS-7 is designed to operate normally for 8 hours in extremely severe operating conditions.

- **Single-Handed Operation**
  The control knobs and switches are in an easy-to-operate arrangement to ensure single-handed operation.

- **Mechanical Ruggedness**
  The JHS-7 is designed to withstand a 1-m drop onto a hard surface.

- **Watertightness**
  The JHS-7 is designed to be waterproof to ensure its normal use even in rainy or water splash conditions.

- **Sunlight resistance**
  If the JHS-7 is long exposed to the sunlight, it will not be damaged because it is composed of specially selected components and materials.

- **Low Power Consumption**
  The JHS-7 is designed to minimize its power consumption and to maximize its operating time. Its sleep mode technique ensures more than 8 hours of its operation time.

- **High Reliability**
  Highly reliable ICs, transistors, LEDs and other surface-mount devices are used.

- **Stable Operation**

  MPT JAPAN TWO-WAY RADIOTELEPHONE APPARATUS
  APPROVED TYPE   LPS5NM-0.8-13-1
  APPROVAL NO.     L91001
  APPROVAL DATE    Apr.5,1991

  MPT JAPAN ON-BOARD COMMUNICATION EQUIPMENT
  APPROVED TYPE   FFM3NM156.3/156.9-0.8F3E13-1
  APPROVAL NO.     F91016
  APPROVAL DATE    Apr.8,1991

  MOT JAPAN TWO-WAY RADIOTELEPHONE APPARATUS
  TYPE APPROVAL NO.  3463
  APPROVAL DATE    Mar.20,1991
### SPECIFICATIONS

**GENERAL**

- **Standard:** IMO Res.A.569(14), A.605(15); Radio Regulations Appendices 18 and 19
- **Operating channels:**
  - CH 16 (156.800 MHz)
  - CH 6 (156.300 MHz)
  - CH 13 (156.650 MHz)
  - CH 15 (156.750 MHz)
  - CH 17 (156.850 MHz)
  - CH 67 (156.375 MHz)
- **Optional channels:** Seven simplex channels selectable from a range of 156.300 to 156.875 MHz
- **Channel spacing:** 25 kHz
- **Channel selection:** CH 16 - by one-touch selector switch, Other CHs - by a rotary dial knob
- **Local oscillator:** PLL frequency synthesizer
- **Frequency stability:** Within 0.001 ppm (TX)
- **Communication mode:** Simplex
- **Class of emission:** G3E/F3E
- **Type of antenna:** Vertical, omnidirectional type integrated antenna
- **Operating time:** More than 8 hours at the duty cycle of 1:9
- **Integrated battery:** Ni-Cd battery (7.2 VDC, 1000 mAH)
- **Operating temperature:** −20° to +55°C

**OUTLINE DRAWING**

- **Transmitter**
  - Effective radiated power: 0.25 to one watt
  - Type of modulation: Variable reactance frequency modulation
  - Frequency deviation: ±5 kHz max.
  - Pre-emphasis: 6 dB (+1 dB, −3 dB) /octave
  - AF harmonic distortion: Better than 10 %

- **Receiver**
  - Receiving system: Double superheterodyne
  - AF output power: 200 mW or more at 10 % THD
  - De-emphasis: −6dB (+1 dB, −3 dB) /octave
  - Maximum usable sensitivity: +6dBμV or less (20dB noise quieting)
  - Selectivity: 12kHz or more at 6dB attenuation
  - 25kHz or less at 70dB attenuation
  - Frequency Stability: Better than 0.001%
  - Spurious response
    - rejection: 70 dB or more
    - Intermodulation response: 70 dB or more
    - Blocking: 90 dBμV or more

- **Options**

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<th>Remarks</th>
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### STANDARD COMPONENTS

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**For further information, contact:**

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Since 1915

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