



FURUNO®

Easy operation by programmable function keys

10-INCH DAYLIGHT RADAR

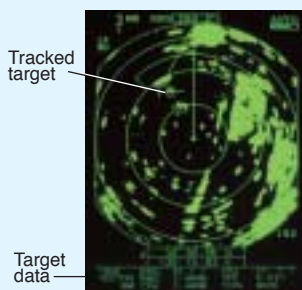
Model 1832

- 4 kW output, 36 nm range
- 3 NMEA 0183 ports (2 inputs and 1 output)
- User-programmable function keys
- Automatic optimization of radar picture
- Newly enhanced short range performance
- Cursor position and radar system data output (TTM target data with ARP-10)
- Head-up, Course-up, North-up and True Motion
- Economy Mode, Guard Zone Alarm* and Watch Mode
- Optional Autoplotter ARP-10 (10 targets auto/manual acquisition and auto tracking)

* US patent No.5,032,842



Autoplotter ARP-10 (option)



Heading and speed data required

Optional Autoplotter ARP-10 acquires 5 targets automatically plus 5 targets manually, or 10 targets manually. All acquired targets are automatically tracked with displays of range/bearing, speed/course, closest point of approach (CPA), time to CPA (TCPA) of an operator selected target. Thus, it greatly reduces the navigator's workload and enhances normal radar navigation.

The FURUNO MODEL 1832 is a 4 kW compact radar designed for small fishing boats and pleasure craft. Radar images are painted in 8 gradations of green on the 10-inch CRT.

The MODEL 1832 has a variety of standard features: dual EBLs and EVRMs, Echo Trails, Guard Zone Alarm*, Off-center and Watch Mode. Automatic control of receiver tuning and anti-clutter ensure optimum performance and target detection allowing simple radar operation. The Guard Zone Alarm* generates audio and visual alarms when a target comes within a user-defined area. This alarm system can also be switched to the Anchor Watch Mode where an alarm is generated when a

target leaves the area. The Economy Mode feature reduces power consumption during stand-by.

When connected with appropriate sensors outputting data in NMEA 0183 format, the MODEL 1832 can display the following information: ship's position in L/L or Loran-C TDs, cursor position readout in L/L, ship's speed, course and range/bearing to the targeted waypoint, XTE, EBL readout in true bearing and a Lollipop waypoint mark. In addition, you can select North-up, Course-up and True Motion presentations as well as Head-up. The cursor position target data (TLL), radar system data (RSD) and tracked target data (TTM) can be outputted in NMEA 0183 format to a compatible VideoPlotter or PC.

SPECIFICATIONS OF MODEL 1832

ANTENNA RADIATOR

1. **Type** 55-cm hybrid array
2. **Rotation Speed** 24 rpm
3. **Wind Load** Relative wind 100
4. **Beamwidth** Hor: 3.9°, Vert: 20°

RF TRANSCEIVER

1. **Frequency** 9410 ± 30 MHz (X-band)
2. **Pulselength & PRR**
 0.08 μs/2100 Hz (0.125, 0.25, 0.5, 0.75, 1, 1.5* nm)
 0.3 μs/1200 Hz (1.5*, 2, 3* nm)
 0.8 μs/600 Hz (3*, 4, 6, 8, 12, 24, 16, 36 nm)
** Pulselength & PRR for 1.5 and 3 nm ranges can be selected in menu*
3. **Peak Output Power** 4 kW
4. **Mixer and Local Oscillator** Microwave Integrated Circuit
5. **IF** 60 MHz
 Bandwidth: 25 MHz (0.08/0.3 μs), 3 MHz (0.8 μs)
6. **Noise Figure** 9 dB nominal

DISPLAY UNIT

1. **Type**
 10-inch, green phosphor CRT (8-level quantization)
 481 (H) x 640 (V) pixels
2. **Display Modes**
 Head-up, Course-up*, North-up*, True Motion**
** Heading input required ** Heading and speed inputs required*
3. **Range Scales (nm)**
 Range: 0.125, 0.25, 0.5, 0.75, 1, 1.5, 2, 3, 4, 6, 8, 12, 16, 24, 36
 Ring: 0.0625, 0.125, 0.125, 0.25, 0.25, 0.5, 0.5, 1, 1, 2, 2, 3, 4, 6, 12
4. **Echo Trail**
 Interval: 15 s, 30 s, 1 min, 3 min, 6 min, 15 min, 30 min or continuous
5. **Interface** (NMEA 0183 format)
 Input
 APB, BWC, BWR, DBK, DBS, DBT, DPT, GGA, GLC, GLL, GTD, HDG, HDM, HDT, MDA, MTW, RMA, RMB, RMC, VTG, VHW, XTE
 Output:
 RATLL, RARSD, RATTM (ARP-10 required)
6. **Autoplotter ARP-10 (Built-in option)**
 Acquisition: 5 auto + 5 manual, or 10 manual
 Tracking: Auto
 Display: Speed, course, Range/bearing and CPA/TCPA
 (Heading data in AD-10 format and speed data inputs required)

ENVIRONMENT (IEC60945 test method)

- Temperature: -15°C to +55°C (Display unit)
 -25°C to +70°C (Antenna unit)
- Waterproofing: IEC 60529 IPX5, USCG CFR-46 (Display unit)
 IEC 60529 IPX6 (Antenna unit)

POWER SUPPLY

- 10.2 to 40.0 VDC, 52 W (28 W in economy mode)
- 115/230 VAC with optional rectifier PR-62

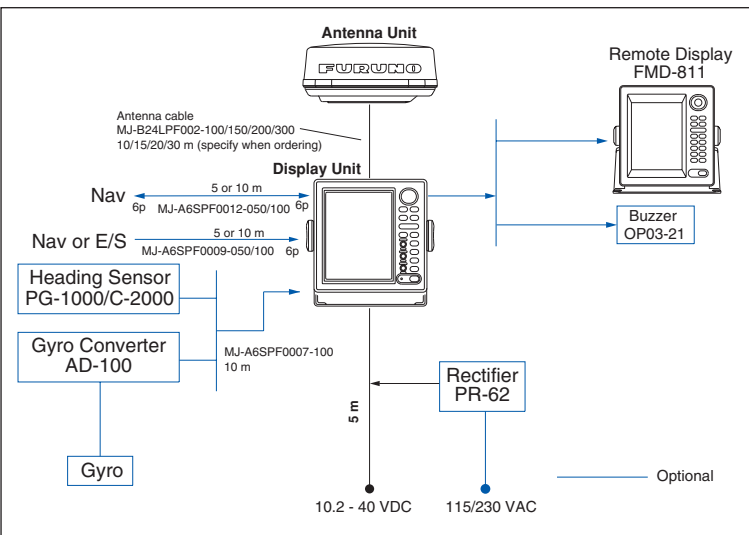
EQUIPMENT LIST

Standard

1. Display Unit (RDP-118) 1 unit
2. Radome Antenna Unit (RSB-0071) 1 unit
3. Antenna Cable (MJ-B24LPF0002-100/150/200/300),
 10/15/20/30 m (Specify when ordering)
4. Power Cable (03S9322-0), 5 m
5. Standard Spare Parts and Installation Materials 1 set

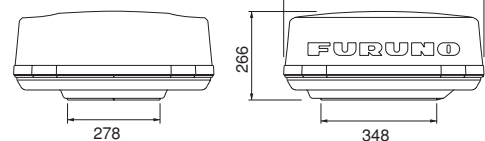
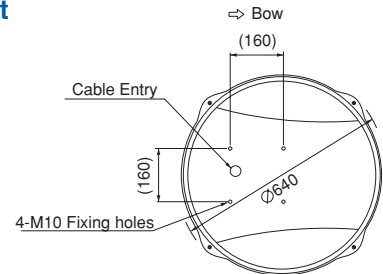
Option

1. Antenna Bracket OP03-92
2. Rectifier PR-62
3. Autoplotter ARP-10
4. Data Cable
 MJ-A6SPF0012-050 (5 m), MJ-A6SPF0012-100 (10 m),
 MJ-A6SPF0011-050 (5 m), MJ-A6SPF0011-100 (10 m)
5. Compass Cable MJ-A6SPF0007-100 (10 m)
6. Buzzer OP03-21
7. Display Hood with Lens 03-121-1500
8. Flushmount Kit OP03-145
9. Radar Remote Display FMD-811
10. Heading Sensor PG-1000



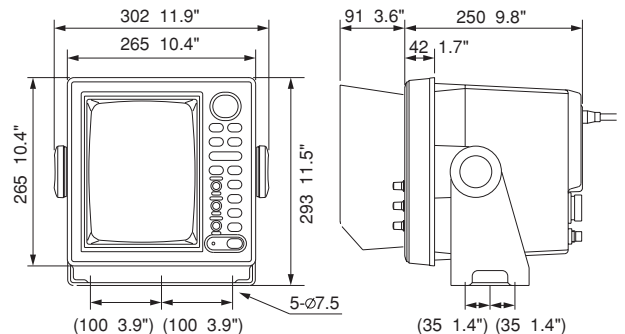
Antenna Unit

8 kg 17.6 lbs



Display Unit

8 kg 17.6 lbs



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



The future today with FURUNO's electronics technology.

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