

**SPECIFICATIONS OF GPS PLOTTER/SOUNDER
GP-1870F**

1 GENERAL

- 1.1 Display 7.0-inch TFT color LCD, 800 x 480 dots
- 1.2 Display mode Plotter, Plotter/Sounder, Sounder, Highway, Waypoint display
- 1.3 Projection Mercator
- 1.4 Useable area 80° latitude or below
- 1.5 Language Bahasa Indonesia, Bahasa Malaysia, Chinese, Danish, English (UK/USA), Finnish, French, German, Greek, Italian, Japanese, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, Thai, Vietnamese
- 1.6 Brilliance 900 cd/m² typical

2 GPS RECEIVER

- 2.1 Receiving channels GPS: 50 channels, SBAS: 1 channel
- 2.2 Rx frequency 1575.42 MHz
- 2.3 Rx code C/A code, WAAS
- 2.4 Position fixing system All in view
- 2.5 Accuracy GPS 10 m, SBAS 7.5 m
- 2.6 Cold start 90 s approx.
- 2.7 Update interval 1 s
- 2.8 Receiving sensitivity -150 dBm
- 2.9 SBAS WAAS, EGNOS and MSAS

3 PLOTTER FUNCTION

- 3.1 Effective projection area 0.125 NM to 2,048 NM (at equatorial area)
- 3.2 SD card 32 GB max., C-MAP 4D chart
- 3.3 Track display Plot interval: by time or distance
- 3.4 Memory capacity Track: 30,000 points, Waypoint: 30,000 points, Course: 1,000 route
- 3.5 AIS information 200 points
- 3.6 Weather information Wind, Wave, Weather type, Humidity and Temperature
- 3.7 Equipments monitor Engine monitor, Instruments information

4 SOUNDER

- 4.1 Transmit frequency 50/200 kHz
- 4.2 Transmit method Single or alternative transmission
- 4.3 Transmission power 600 W/ 1kW rms selectable
- 4.4 Transmission interval 2000 times/min.
- 4.5 Pulselength 0.04 to 3.0 ms
- 4.6 Receiving sensitivity 10 dB μ V
- 4.7 Range Basic range: 5 to 1200 m, Shift: 0 to 1200 m
- 4.8 Picture advance speed 7 steps
- 4.9 Other functions ACCU-FISHTM, A-scope, bottom discrimination,

Automatic mode (cruising/fishing)

5 INTERFACE

- 5.1 I/O port CAN bus, USB for maintenance
- 5.2 Data format IEC61162-1/NMEA Ver1.5/2.0/3.0 (data converter required)
- 5.3 Data sentences
 - Input GGA, GLL, HDG, HDT, MDA, MTW, MWV, RMA, RMB, RMC, VHW, VTG, ZDA
 - Output DBT,DPT,MTW*,TLL*,VHW* (*: external data required)
- 5.4 CAN bus PGN (NMEA2000)
 - Input 059392/904, 060928, 061184, 126208/992/996, 127245/250/251/488/489/493/496/505, 128259/267, 129025/026/029/033/038/039/040/538/540/793/794/798, 129808/809/810, 130306/310/311/312/313/314/577
 - Output 059392/904, 060928, 126208/464/992/996, 127258, 128259/267/275, 129025/026/029/033/283/284/285, 130310/312/830/831/832

6 POWER SUPPLY

- 6.1 Display unit 12-24 VDC: 1.0-0.5 A
- 6.2 Rectifier (PR-62, option) 100/110/115/220/230 VAC, 1 phase, 50/60Hz

7 ENVIRONMENTAL CONDITIONS

- 7.1 Ambient temperature -15°C to +55°C
- 7.2 Relative humidity 93% or less at +40°C
- 7.3 Degree of protection IP56