

SMART™ SENSOR SPECIFICATIONS

Smart™ Digital Depth & High Precision Temperature Sensor

Furuno # 235DHT-MSE Airmar # 44-030-1-01
235DHT-LMSE # 44-035-1-01

Inboard/Outboard Interface

- Data output protocol: Differential NMEA 0183, v2.0
- Data transmission rate: Once per second
- Software re-programmability: Yes, via NMEA data lines
- Depth data string:
 \$SDDBT,x.x,f,x.x,M,x.x,F*hh<CR><LF>
 \$SDDPT,x.x,*hh<CR><LF>
- Temperature data string:
 \$YXMTW,x.xx,C*hh<CR><LF>

Electrical Power

- Supply voltage: 8.4VDC to 31.2VDC
- Supply voltage at 100% sound output: 12.8VDC to 31.2VDC
- Supply current: 80mA maximum
- Reverse polarity protection

Depth Measurement

- Depth range: 0.6m (2') to 100m (330')
- Depth resolution, DBT: 0.1m, 0.1', 0.1 fathom
 DPT: 0.1m

Depth Accuracy

Based on sound speed of 1,500 m/sec.

- 0.6m to 5m: ± 20cm
- 5m to 100m: ± 3%

Temperature Sensor

- High precision thermistor: Airmar #07-518-01
- Nominal resistance value: 10,000Ω at 25° C ±0.2° C
- Temperature range: -10°C to +40°C
- Temperature resolution: 0.01°C
- Temperature accuracy: ±0.5°C

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