Active DST module

Smarten up old or new transducers

Connect to NMEA displays with this depth, speed & temp processor

The **Actisense™** Active Depth/Speed/Temperature module is the **best solution for interfacing** between a depth transducer and an NMEA 0183 compatible **chart plotter, radar, or on-board PC/Laptop**.

Designed for use with most **existing transducers** already fitted to a vessel, or **new transducers**.

Our industry proven depth sounder algorithm has the **best-in-class seabed tracking**, and in conjunction with a good quality transducer, can track the seabed down to **0.3m (1 foot)** - transducer dependent.

100W peak depth power enables a maximum depth range of **200m (660 feet)** under optimum conditions, proven with an Airmar transducer.

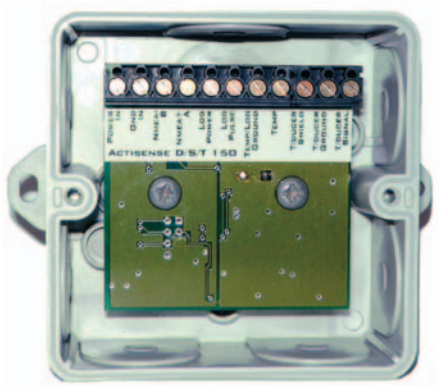
150 KHz & 200 KHz depth transducer frequencies are available to match most existing transducers. For enhanced interference rejection, a **235 KHz** capable module is also available.

Log transducer and **temperature thermistor interfaces** allow additional data to be provided over the NMEA data stream, giving a cable saving when those extra measurements are required.

Easy reprogramming is possible using free software available on the Actisense™ website and the **Actisense™ RS485 PC interface**. NMEA Active module software may be updated as many times as required with the very latest software enhancements, or special purpose software such as the **fish-finder/hydrograph software** upgrade.

The data interface is configured as an **NMEA 0183** interface, but can operate as a fully bidirectional RS485 interface for **customised applications**, such as on-board multiple depth sounder networks.

NMEA display software for a Windows™ PC, will also be available from the **Actisense™** website to display the fish finder/hydrograph data from any upgraded NMEA Active DST module.



NMEA / RS485 Output system

- Exceeds all NMEA 0183 output voltage specifications
- Capable of driving up to 20 NMEA 0183 compliant instruments. Typical maximum drive is 10 instruments
- Short circuit protected
- Static discharge protected
- Standard 4800 NMEA Baud rate. Other Baud rates up to 38400 are possible for customised software
- Logic '1' / stop bit: Minimum -15.0v, Maximum 0.5v
- Logic '0' / start bit: Minimum 4.0v, Maximum 15.0v

RS485 Input System

- Standard RS485 input voltage specifications
- Logic '1' / stop bit: Minimum -15.0v, Maximum 0.5v
- Logic '0' / start bit: Minimum 4.0v, Maximum 15.0v

Data Output rate

- Depth, Speed, Trip and Temperature data output once per second if the respective transducer has been detected. Customised output rates available

Depth Range

- Airmar transom P66 / other narrow beam transducer:
  < 10 knots: Minimum 0.3m, Maximum 200m
  10 - 40 knots: Minimum 0.3m, Maximum 100m
- Airmar through-hull P17 / other wide beam transducer:
  < 10 knots: Minimum 0.3m, Maximum 150m
  10 - 40 knots: Minimum 0.3m, Maximum 100m

Depth Transducer

- Drive Frequency: 150 KHz, 200 KHz, or 235 KHz

Speed Transducer

- Minimum and Maximum dependent on transducer. Standard Airmar transducer allows 0.2 - 50 knots

Temperature Transducer

- Standard 10 KΩ at 25°C

Power supply

- Supply Voltage range: 7 to 29 volts DC
- Power Consumption: 40 mA @ 12v DC / 480 mW

General

- Weight: 250 grams
- Dimensions: see diagram to right
- Guarantee: 2 years

Environmental

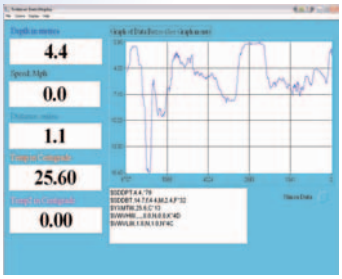
- Recommended operating temperature: -40°C to +80°C
- Casing provided with sealing grommets to IP65

Built-in Firmware / Software

- Free software updates available on Actisense™ website
- Simple one button reprogramming utility
- Future-proof design
- Custom programming service available

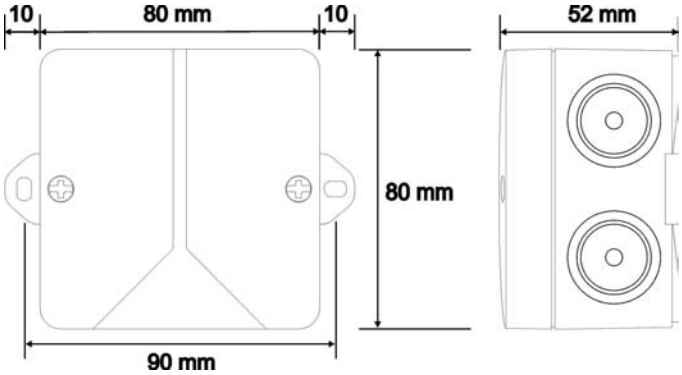
Triducer Display Software

- Freely available on the Actisense™ website
- PC Windows OS software (95/98/ME and NT/2000/XP)
- Displays the Depth, Speed, Trip and Temperature information received from the module in both digital and graphical form



Part numbers

- 150 KHz module: DST-150-1-A
- 200 KHz module: DST-200-1-A
- 235 KHz module: DST-235-1-A



excelling in smart sensor design

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