

Active DST Transducers

Smart Transducers – Depth Speed Temperature Connect to your NMEA displays with these digital transducers

The Actisense™ Active Depth/Speed/Temperature transducer is the best solution for supplying NMEA Depth, Speed/Log and Temperature to an NMEA 0183 compatible chart plotter, radar, or on board PC/Laptop.

Our industry proven depth sounder algorithm has the best-in-class seabed tracking. Couple that to the processing electronics only a centimetre from the depth transducer, and the performance obtained is truly the best possible, tracking the seabed down to 0.3m (1 foot).

100W peak depth power enables a maximum depth range of 100m (330 feet) under optimum conditions.

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.

235 kHz depth transducer frequency for enhanced interference rejection from surface noise and other transducers nearby.

A built-in Log transducer and Temperature thermistor (certain models), allow additional data to be provided over the NMEA network, giving a cable saving when those extra measurements are required.

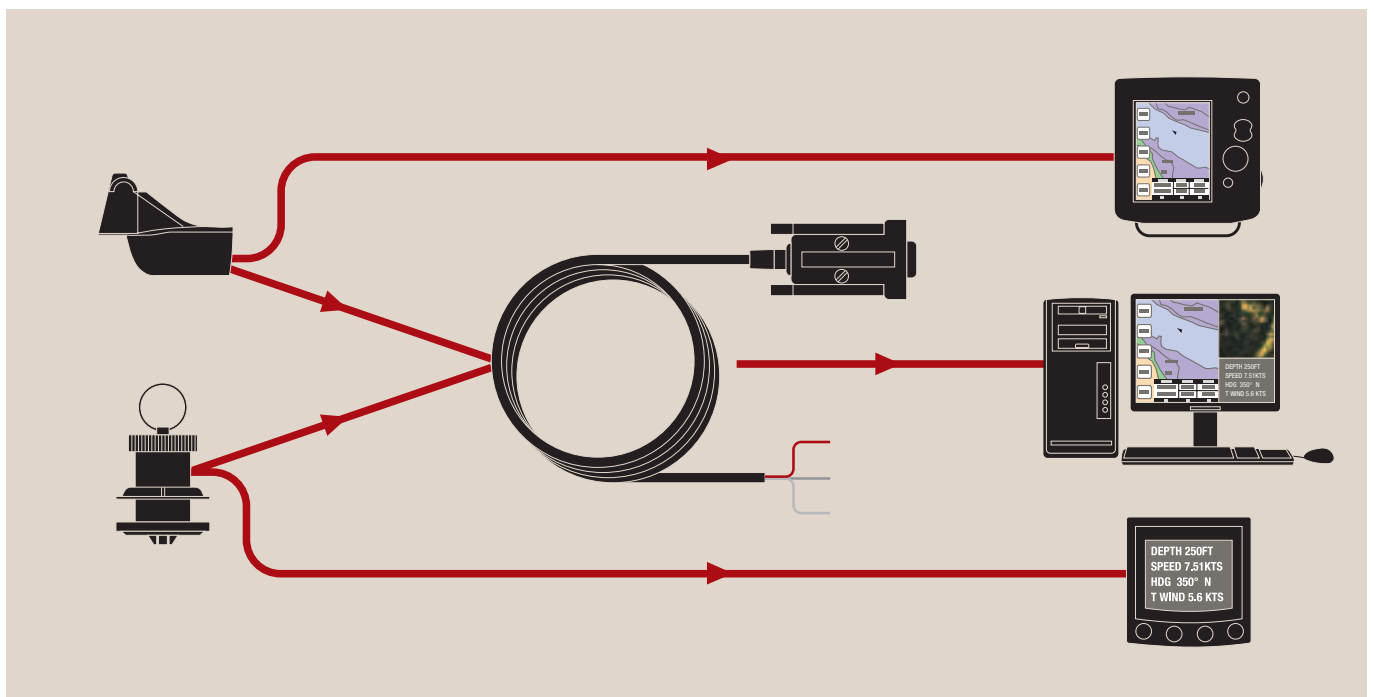
Easy reprogramming is possible using free software, available on the Actisense™ website, and the Actisense™ RS485 PC interface. The transducer's software may be updated as many times as required with the very latest software enhancements, or special purpose software such as the fish-finder/hydrograph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

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



DT800

P66



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Specifications

NMEA / RS485 Output system

- Exceeds all NMEA 0183 output voltage specifications
- Capable of driving 5 NMEA 0183 compliant instruments.
Typical maximum drive is 2 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 (DST model only), and Temperature data output once per second. Customised output rates available as part of our custom programming service.

Depth Range

- Airmar transom P66 narrow beam transducer model:
Minimum 0.3m, Maximum 100m
- Airmar through-hull DT800 wide beam transducer model:
Minimum 0.3m, Maximum 100m
- Airmar through-hull DST800 wide beam transducer model:
Minimum 0.3m, Maximum 60m
- Airmar in-hull P79 narrow beam transducer model:
Minimum 0.3m, Maximum 100m
(Maximum depth ratings are specified for boat speeds < 40 knots)

Depth Transducer

- Drive Frequency: 235 kHz for high noise rejection

Speed Transducer

- Minimum 0.5 knots, and Maximum 50 Knots

Temperature Transducer

- Standard 10 K Ω at 25°C

Power supply

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

Environmental

- Recommended operating temperature: -20°C to +60°C
- Fully watertight epoxy filled transducer housing

General

- Weight: 700 grams (DT800, DST800 & P79), 500 grams (P66)
- Dimensions: see diagram
- Guarantee: 2 years

Built-in Firmware / Software

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

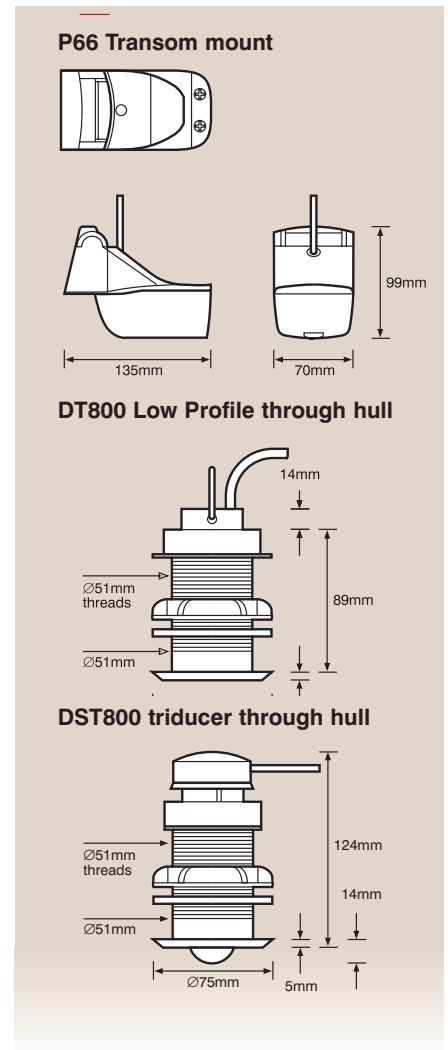
Triducer Display Software

- 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

- 235 kHz DST transom model: TDR-DST-P66
- 235 kHz DT transom model: TDR-DT-P66
- 235 kHz DT through-hull model: TDR-DT-800
- 235 kHz DST through-hull model: TDR-DST-800
- 235 kHz D in-hull model: TDR-D-P79

Dimensions



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