Actisense®

DST-2

NMEA 0183 Digital Transducer Interface

Features	Advantage	Benefits
• Range of transducer frequencies available	✓ Compatible with most manufacturers' existing products	✓ No need to change an existing transducer
• Flash upgradable 'future proof' design	✓ Software improvements are free	✓ Keep product up to date with latest features
• Generates the echo sounders 'ping' and analyses the returned signal	✓ Complete depth sounder in a box	✓ No other circuitry required
• Digitises analogue signals into NMEA 0183 data	✓ No other devices required, does all the depth, speed and temperature digitisation for you	✓ Provides a digital depth, speed and temperature output compatible with NMEA 0183 systems
• Use with most NMEA 0183 displays	✓ DBT and DPT NMEA 0183 sentences output	✓ Compatible with most NMEA 0183 listeners, making the addition of a DST-2 straight forward
• Can be calibrated	✓ Depth, Speed and Temperature can be calibrated to each unique set-up	✓ Provides the most accurate data, with calibration to help fine tune the NMEA 0183 data
• Trip data available with speed transducers	✓ VLW NMEA 0183 sentence output	✓ Trip data can be displayed on a connected NMEA 0183 display/PC program
• Designed to replace outdated stand-alone echo sounders	✓ Uses latest algorithms to give maximum accuracy and reliability	✓ You can trust the Actisense algorithm to give the best depth sounder performance
• Data recording via Smart Calibration software or serial port recorder	✓ Allows you to keep a record of the data	✓ Data can be processed and analysed afterwards

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DST-2

GEEK MODE ON

NMEA 0183 Digital Transducer Interface

Breathe new digital life into transducers, with digital signal processing technology.

The DST-2 digitises depth, speed and temperature transducer signals into NMEA 0183 data to deliver best-in-class seabed tracking.

It works with NMEA 0183 compatible devices, such as chart plotters, radars or an on-board PC. In addition, it can be calibrated via a PC to match various sensors and installations.

Using a DST-2 with an existing depth transducer can be much more cost effective than having to lift the boat out of the water to change the transducer skin fitting. Not only does this save money, but it also saves you time.

Part Number: A-DST-2

Power Supply	
Supply Voltage	10 to 28 V DC
Supply Current	40mA @ 12V DC
Depth Speed & Temperature	
Transducer Drive Frequency	150KHz, 170KHz or 200KHz
Depth Minimum & Maximum (Narrow Beam Transducer)	0-10 Knots: 0.3m Minumim, 200m Maximum. 10-40 Knots: 0.5m Minimum, 100m Maximumw
Depth Minimum & Maximum (Wide Beam Transducer)	0-10 Knots: 0.5m Minumim, 150m Maximum. 10-40 Knots: 0.5m Minimum, 100m Maximum
Speed	Will vary dependent on transducer. Airmar standard paddle-wheel log transducer 0.5 to 50 Knots
Temperature	Will vary dependent on transducer. DST-2 Uses industry standard thermistor (10kW @ 25°C)
NMEA 0183 Port - Talker	
Compatibility	Fully NMEA 0183, RS232 & RS422 compatible. RS485 Listener Only
Speed / Baud Rate	4800 to 38400 Baud
Output Voltage Drive	>= 2.2V (differential) into 100Ω
Output Current Drive	20mA max.
Output Protection	Short circuit
Mechanical	
Case Material	Grey Polycarbonate
Lid Material	Clear Polycarbonate
Sealing Material	EPDM Synthetic rubberw
Cable Gland	Grey M16 Nylon clamping gland
Dimensions (Including Glands)	106mm (H) x 82mm (W) x 55mm (D)
Weight	200g
Mounting Method	Bulkhead Mount
Approvals and Certifications	
Meets IEC 61162-1 & IEC 61162-2	
Environmental Protection	IP66
Operating Temperature	-20 to + 70°C
Storage Temperature	-40 to + 85°C
Guarantee	3 Years

All specifications are taken with reference to an ambient temperature of 25°C unless otherwise specified.
All specifications correct at time of print.