



930346

## Transducer Interface for C-net 2000

### INTRODUCTION

The 930346 Speed, depth and Temperature interface transmits NMEA 0183 messages to a c-net 2000 Display.

### SPECIFICATION

Supply	+12V DC nominal (+9V to +15V)
Power consumption	60mA average
Speed range	0.0 to 99 knots
Trip range	0.0 to 999.9 nautical miles
Depth range	0.5 to 140 metres
Temp. transducer range	-10 to +40°C
Sonar burst frequency	200 KHz
Circuit protection	Reverse voltage protection
Operating temperature	0° to +55°C
Storage temperature	-20° to +75°C
Output	NMEA messages output approximately every second

### Message formats

\$IIDPT,xxx.x, 0.0<CR><NL>	(depth in metres)
\$IIDBT,xxx.x,N,,K<CR><NL>	(depth in feet),f,(depth in metres)
\$IIVHW,,T,,M,xxx.x, N,,K<CR><NL>	(speed in knots)
\$IIVHW,,N,xxx.x,N<CR><NL>	(distance in miles)
\$IIMTW,xxx.x,C<CR><NL>	(temperature in °C)



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Document  
reference:  
803460  
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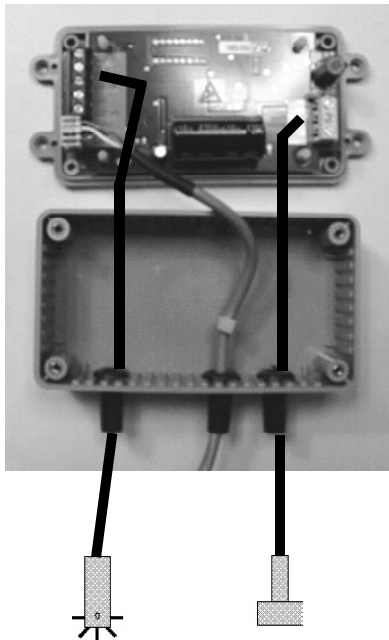
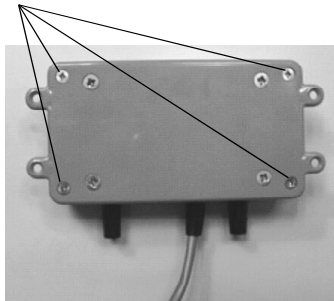
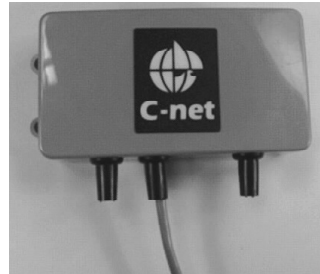
**CE** This product complies with  
EMC Directive 89/336/EEC

## INSTALLATION

Position the 930346 Interface on a vertical bulkhead, with the cable glands pointing down.

Before mounting the unit, the transducers must be wired to it.

Remove the 4 screws holding the case halves together.



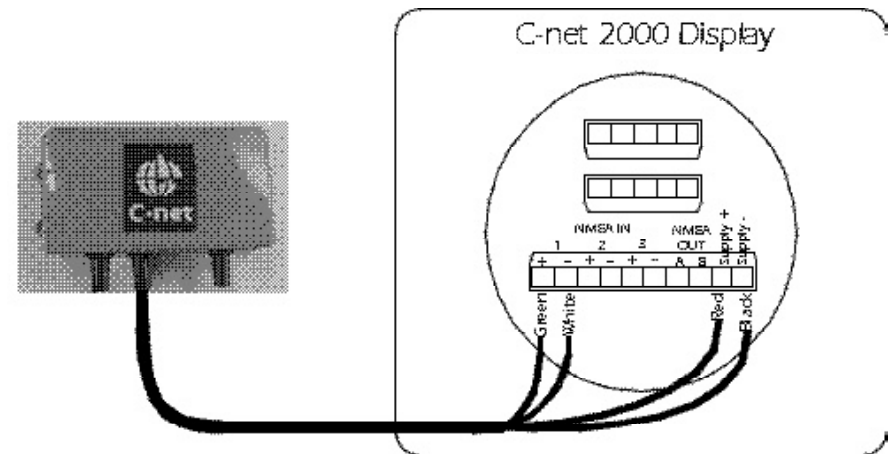
Remove any plugs from the transducer cables then feed the cables through the cable glands.

Wire them to the terminal blocks as indicated below.

930346 PCB mounted in the Rear Cover			
○	TEMP + —	Brown	
○	TEMP - —	White	
○	LOG IN —	Green	
○	LOG - —	Screen	
○	LOG + —	Red	
▶	NMEA Tx + —	Green	Inner wire — DEPTH ○
▶	NMEA Tx - —	White	Screen — SUPPLY- ○
▶	- SUPPLY —	Black	
▶	+ SUPPLY —	Red	

Refit the two case halves back together, being careful not to trap the cables behind the large capacitor.

Check that the power is disconnected and connect the output cable to one of the 3 NMEA-IN ports of a C-net 2000 instrument.



Where a screen/chassis connection point is available (NOT Ships Supply -ve), connect the screen of the output cable to it.

Finally mount the 930346 Interface box to the bulkhead.