SIMRAD

50/200 kHz Combi transducer

Introduction

The **Simrad 50/200 Combi C** transducer combines two transducers and one temperature sensor in a single housing. It is designed with a streamlined shape for hull mounting on small vessels.

Order number

KSV-202193

Common specifications

Nominal impedance	75 ohms
Maximum pulse power input	1000 W
Maximum continous power input	10 W
Resistance NYC thermistor at 25°	10 kohm
Maximum transducer depth	20 m
Cable length	10 m
Cable diameter	6.3 mm
Weight with cable	6.5 kg
Storage temperature	-20 to 70°C

Technical specifications 50 kHz

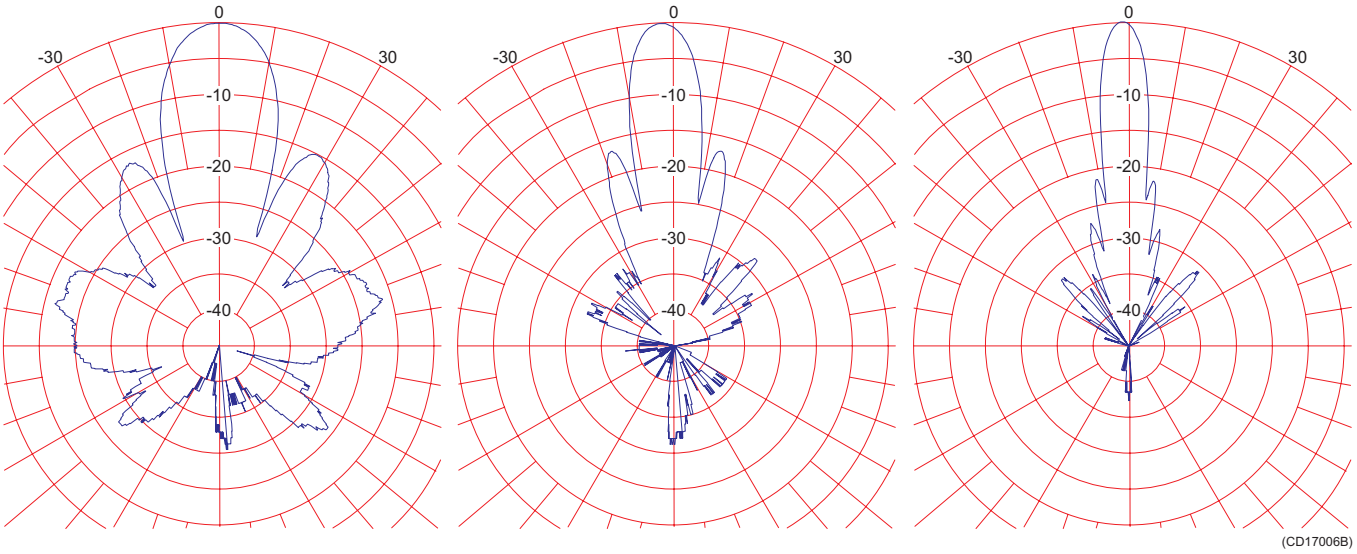
Resonant frequency	50 kHz
Beamwidth longitudinal	10 deg
Beamwidth transverse	16 deg
Directivity, DI=10logD	23 dB
Side lobes	less than -15 dB
Back radiation	less than -25 dB
Source level at 1000 W	221 dB re 1µPa
Transmitting response	172 dB re 1µPa per V
Receiving sensitivity:	
Open circuit	-179 dB re 1V per µPa
Electroacoustic efficiency	50%

Technical specifications 200 kHz

Resonant frequency	200 kHz
Beamwidth longitudinal	7 deg
Beamwidth transverse	7 deg
Directivity, DI=10logD	28.5 dB
Side lobes	less than -18 dB
Back radiation	less than -30 dB
Source level at 1000 W	227 dB re 1µPa
Transmitting response	178 dB re 1µPa per V
Receiving sensitivity:	
Open circuit	-185 dB re 1V per µPa
Electroacoustic efficiency	60%

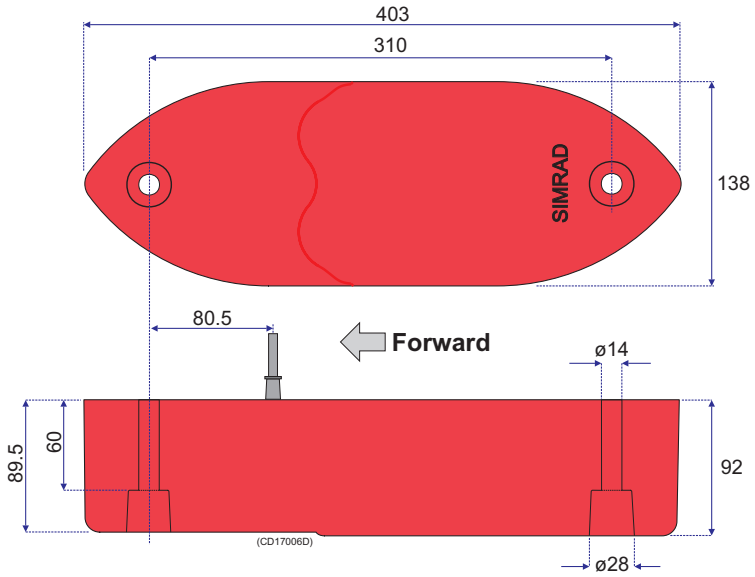
NOTE: The transducer cable must not be exposed to oil or other petroleum fluids.

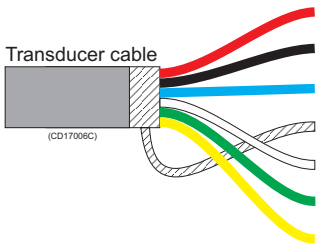
Beam patterns



50 kHz transverse *50 kHz longitudinal* *200 kHz*

Installation





Pin	Colour	Signal
1	Red	50 kHz
2	Black	50 kHz
3	Blue	200 kHz
4	Screen	
5	White	200 kHz
6	Green	Thermistor
7	Yellow	Thermistor

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