

# 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 continuous 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

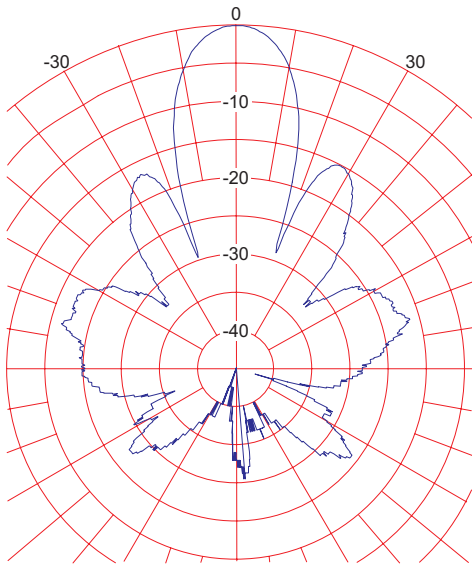
Resonant frequency.....	50 kHz
Beamwidth longitudinal.....	10 deg
Beamwidth transverse.....	16 deg
Directivity, DI=10logD .....	23 dB
Side lobes.....	less than -15 dB
Back radiation .....	less than -25 dB
Source level at 1000 W .....	221 dB re 1µPa
Transmitting response .....	172 dB re 1µPa per V
Receiving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

## Technical specifications 200 kHz

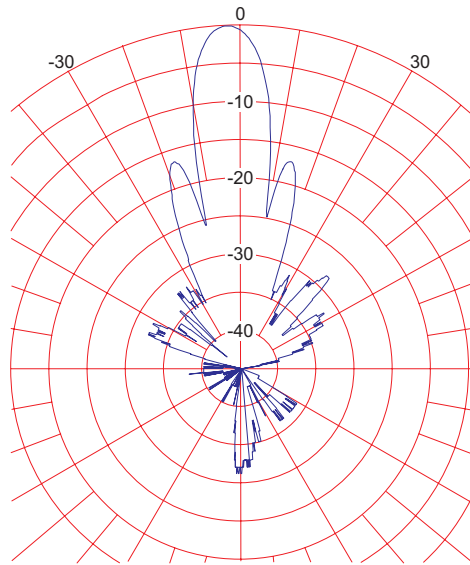
Resonant frequency.....	200 kHz
Beamwidth longitudinal.....	7 deg
Beamwidth transverse.....	7 deg
Directivity, DI=10logD .....	28.5 dB
Side lobes.....	less than -18 dB
Back radiation .....	less than -30 dB
Source level at 1000 W .....	227 dB re 1µPa
Transmitting response.....	178 dB re 1µPa per V
Receiving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

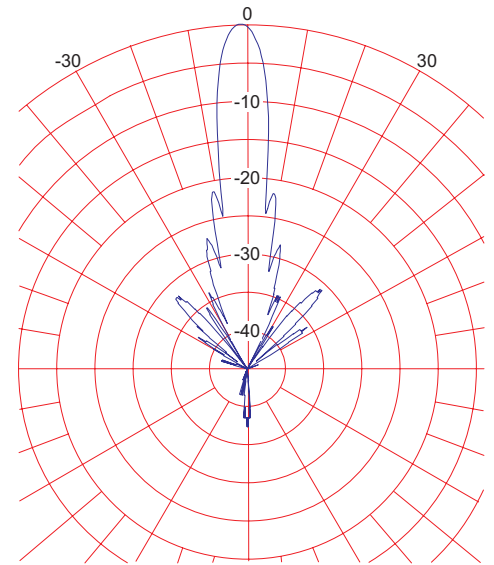
## Beam patterns



50 kHz transverse



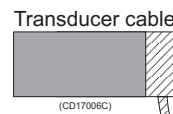
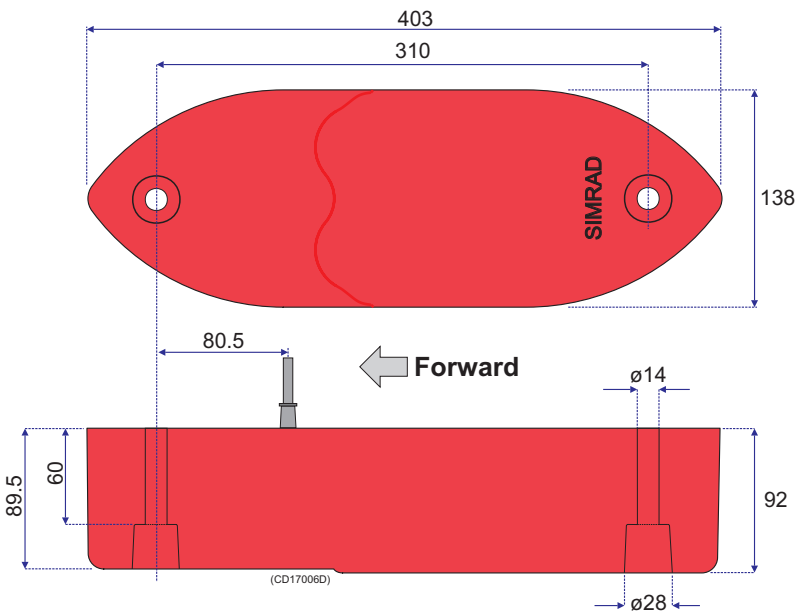
50 kHz longitudinal



200 kHz

(CD17006B)

## 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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