

50 kHz Single-beam transducer



Introduction

The 50-18POR is a portable, single-beam transducer incased in a compact, cylindrical housing with an integrated threaded stud for convenient mounting on a rod or similar apparatus.

Order number

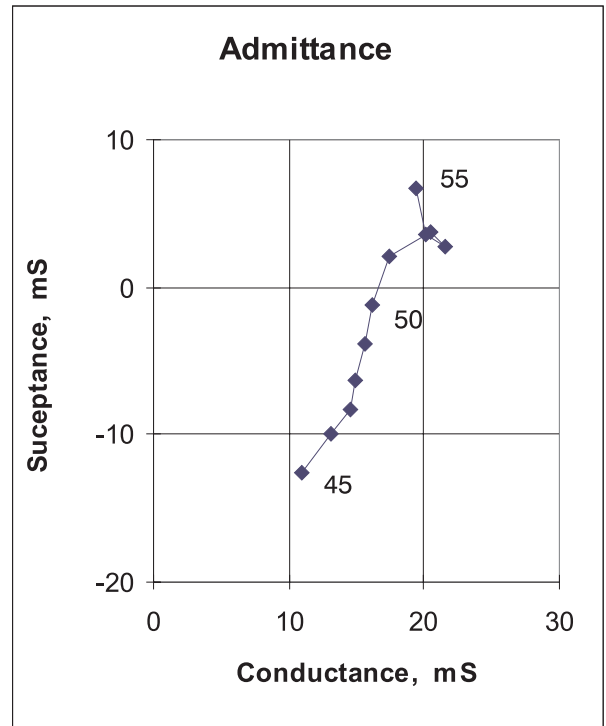
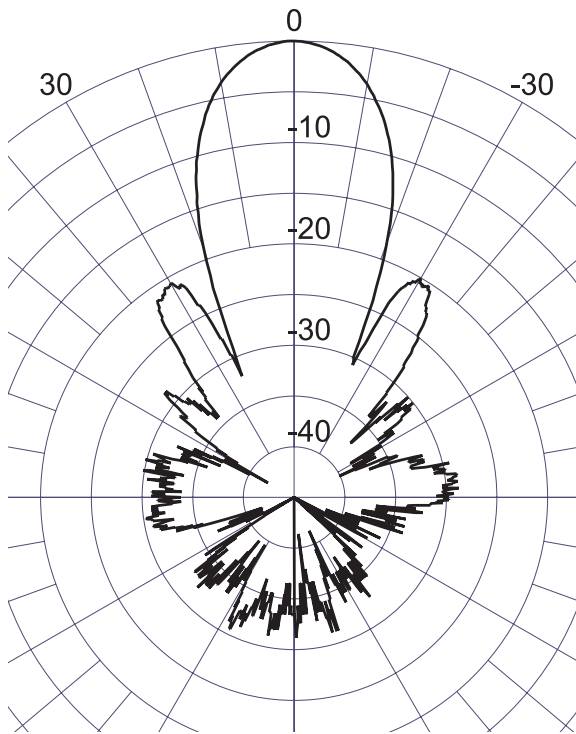
KSV-088073

Technical specifications

Resonant frequency.....	50 kHz
Beamwidth, circular.....	18 deg ±3
Directivity:	
D.....	100 ±20%
DI=10logD.....	20 ±1 dB
Side lobes.....	less than -15 dB
Back radiation.....	less than -25 dB
Impedance:	
Nominal.....	60 ohms
Max. variation in Z	45 - 80 ohms
Max variation in phase angle.....	±30 deg
Transmitting response.....	207 dB ±2
	re 1µPa per A
Receiving sensitivity, open circuit.....	-181 dB ±2
	re 1V per µPa
Electroacoustic efficiency.....	0.70 ±0.20
Maximum pulse power input.....	500 W
Maximum continous power input.....	10 W
Maximum transducer depth.....	10 m

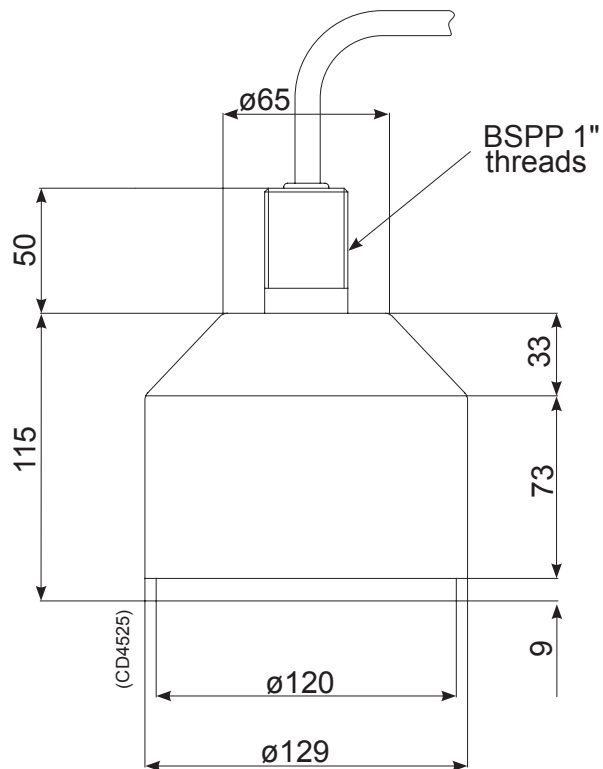
Cable length.....	15 m
Cable diameter.....	9.5 mm
Weight without cable.....	2 kg
Weight with cable.....	4.5 kg
Storage temperature.....	-20 to 70 °C

Data



(CD4496)

Installation



Manufacturer:

Simrad AS

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