Datasheet

Eta450 Ultra

Acoustic

Membrane-free, optical
50 kHz - 2 MHz
100 dB
5 μPa (BW: 1 Hz, measured @ 500 kHz)
10 mPa
40 Pa
126 dB rel. 20 µPa
> 194 dB rel. 20 µPa
100 mV/Pa @ 1 kHz (0 dB gain, 50Ω)
Omnidirectional
Free field and pressure field
Yes, standard calibrators (with adapter)

General

Maximum output voltage	$\pm 15 \text{ V}$ (high impedance), $\pm 7.5 \text{ V}$ (50 Ω)
Output impedance	50Ω
Output connector	BNC
Size of sensor head	diameter: 5 mm; length: 35 mm
Weight of sensor head	ca. 10 g
Length of fiber-optic cable	5 m (other upon request)
Size of signal conditioning unit	220 mm x 334 mm; height: 93 mm
Weight of signal conditioning unit	8 kg
Power supply	120/230V ± 5%; 50/60 Hz
Power consumption	<50W

Environmental

Storage temperature	–20°C to 80°C (0°F to 175°F)
Operating temperature of sensor head	–20°C to 100°C (0°F to 210°F)
Operating temperature of signal conditioning unit	0°C to 50°C (30°F to 120°F)
Environmental humidity	non-condensing

