

Eta450 Ultra

Acoustic

Transducer type	Membrane-free, optical
Frequency range	50 kHz - 1MHz
Dynamic range	100 dB
Self-noise	5 μPa (BW: 1Hz, measured @ 500 kHz)
Self-noise, full bandwidth	10 mPa
Max. sound pressure for THD <3%	40 Pa
Max. sound pressure level for THD <3%	126 dB rel. 20Pa
Damage threshold	>194 dB rel. 20Pa
Sensitivity	100 mV/Pa @ 1 kHz (0dB gain, 50Ω)
Polar pattern	Omnidirectional
Sound field optimization	Free field and pressure field
Calibration	Adapter available for standard calibrators

General

Maximum output voltage	±15V (high impedance), ±7.5V (50 Ω)
Output impedance	50 Ω
Output connector	BNC
Sensor head dimensions	diameter: 8.8mm; length: 35mm
Sensor head weight	10 g
Fiber cable length	5 m (other upon request)
Signal conditioning unit dimensions	220 mm x 330 mm; height: 95mm
Signal conditioning unit weight	8 kg
Power supply	230/120 V ±5%; 50/60Hz
Power consumption	< 50 W

Environmental

Storage temperature	-20 ° C to 80 C (0 F to 175 F)
Operating temperature: sensor head	10 ° C to 40 C (50 F to 100 F)
Operating temperature: signal conditioning unit	0 ° C to 50 C (30 F to 120 F)
Environmental humidity	non-condensing

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