

Eta100 Ultra

Acoustic

Transducer type	Membrane-free, optical
Frequency range	10 Hz - MHz
Dynamic range	100 dB
Self-noise	1.5mPa (BW: 1 Hz, measured @ 1 kHz)
Self-noise, full bandwidth	1.5Pa
Max. sound pressure for THD <3%	12 kPa
Max. sound pressure level for THD <3%	176 dB rel. 20Pa
Damage threshold	>194 dB rel. 20Pa
Sensitivity	0.35mV/Pa @ 1 kHz (0dB gain, 50Ω)
Polar pattern	Omnidirectional
Sound <input checked="" type="checkbox"/> eld optimization	Free <input checked="" type="checkbox"/> eld and pressure <input checked="" type="checkbox"/> eld
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: 5mm; length: 33mm
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	-20° C to 100 C (0 F to 210 F)
Operating temperature: signal conditioning unit	15° C to 30 C (60 F to 90 F)
Environmental humidity	non-condensing

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moving sounds without moving parts

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