

Eta600 Ultra

Acoustic

Transducer type	Membrane-free, optical
Frequency range	50 kHz - 4 MHz
Dynamic range	95 dB
Self-noise	3.5 μ Pa (BW: 1 Hz, measured @ 500 kHz)
Self-noise, full bandwidth	10 mPa
Max. sound pressure for THD <3%	20 Pa
Max. sound pressure level for THD <3%	120 dB rel. 20 μ Pa
Damage threshold	> 194 dB rel. 20 μ Pa
Sensitivity	200 mV/Pa @ 1 kHz (0 dB gain, 50 Ω)
Polar pattern	Omnidirectional
Sound field optimization	Free field and pressure field
Calibration	Yes, standard calibrators (with adapter)

General

Maximum output voltage	\pm 15 V (high impedance), \pm 7.5 V (50 Ω)
Output connector	BNC
Size of sensor head	width: 9 mm; height: 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 conditional unit	220 mm x 334 mm; height: 93 mm
Weight of signal conditional unit	8 kg
Power supply	120/230 V \pm 5%; 50/60 Hz
Power consumption	< 50 W

Environmental

Storage temperature	-20 $^{\circ}$ C to 80 $^{\circ}$ C (0 $^{\circ}$ F to 175 $^{\circ}$ F)
Operating temperature of sensor head	-20 $^{\circ}$ C to 100 $^{\circ}$ C (0 $^{\circ}$ F to 210 $^{\circ}$ F)
Operating temperature of signal conditioning unit	0 $^{\circ}$ C to 50 $^{\circ}$ C (30 $^{\circ}$ F to 120 $^{\circ}$ F)
Environmental humidity	non-condensing