

Eta100 L Ultra

Acoustic

Transducer type	Membrane-free, optical hydrophone
Frequency range	50 kHz - 20 MHz
Dynamic range	20 mPa - 1 MPa (pressure amplitude)
Self-noise, BW 1 Hz @ 100 kHz	20 mPa
Self-noise, full bandwidth	90 Pa
Sensitivity	16 mV/kPa

General

Sensor output voltage	$\pm 15\text{V}$ (high impedance), $\pm 7.5\text{V}$ (50 Ω)
Sensor output voltage connector (signal conditioning unit)	BNC
Sensor output impedance	50 Ω
Size of sensor head	diameter: 6,5 mm; length: 31 mm
Weight of sensor head	12 g
Fiber cable length	5 m (other upon request)
Size of control unit	220 mm x 330 mm; height: 95 mm
Weight of control unit	8 kg
Power supply (signal conditioning unit)	120 / 230 Vac $\pm 5\%$, 50 / 60 Hz
Power consumption	< 50 W

Environmental

Storage temperature	0°C to 60°C (30 F to 140 F)
Operating temperature: sensor head	5°C to 60°C (40 F to 140 F)
Operating temperature: control unit	15°C to 30°C (60 F to 85 F)
Environmental humidity	non condensing



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東京本社 〒160-0014 東京都新宿区内藤町1番地 内藤町ビルディング
 TEL:03-3356-1064 E-mail:info@optoscience.com

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