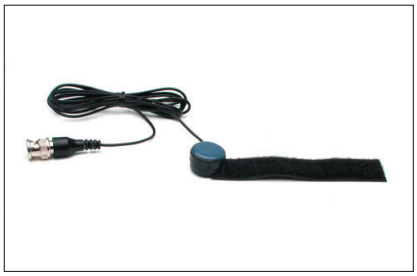
Pulse and Force Transducers

ET1010 Piezo-electric Pulse Transducer

A pulse transducer, comprising of a piezo-electric element that develops a voltage in response to an applied force on the active surface of the transducer. It is connected directly to a BNC input of an **e-corder** unit. Use to monitor a finger pulse signal, or the force of a small impact.

Frequency response:	2.5 to 5000 Hz
Weight:	25 g
Size (Ø × W):	22 × 12 mm
Cable length:	1 m (3.3')
Connector:	BNC

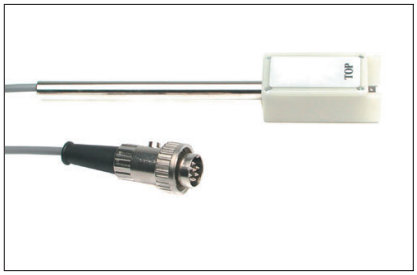


ET1010 Piezo-electric Pulse Transducer

ET050 & ET500 Force Transducers

Both the ET050 & ET500 Force Transducers are isometric force transducers for continuous force monitoring up to the equivalent of 50 g wt. and 500 g wt. respectively. They are used with the EA110 Bridge Amp.

The shaft of the transducer is typically secured to a retort stand, whilst force is applied in a perpendicular direction to the metal tongue.



ET050 Force Transducer (ET500 has an identical external appearance)

	ET050	ET500
Excitation voltage:	6 V DC	6 V DC
Operating range:	0 to 50 g wt. (0 to 0.5 N)	0 to 500 g wt. (0 to 5 N)
Tongue displacement:	±0.5 mm	±5 mm
Resonant frequency:	450 Hz (typical)	450 Hz (typical)
Sensitivity (full range):	1 mV/g (typical)	0.4 mV/g (typical)
Bridge resistance:	1000 Ω	400 Ω
Non linearity and hysteresis:	<0.5% (full scale)	<0.5% (full scale)
Body (L × B × H):	60 × 30 × 18 mm	60 × 30 × 18 mm
Weight (including cable):	74 g	74 g
Cable length:	1 m (3.3')	1 m (3.3')
Connector:	8-pin DIN	8-pin DIN

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