

MLT844 Physiological Pressure

Transducer Series

Description

The MLT844 Physiological Pressure Transducer is a highly accurate and robust piezo-resistive transducer. The dome is easy to fill and is quickly coupled to the transducer without any liquid between the transducer and dome diaphragms. This ensures the transducer never fouls and gives the transducer a long life expectancy. The MLT844 is supplied with three disposable clip-on domes. It is suitable for connection to any ADInstruments Bridge Amps.



Operation

To prepare the transducer, first remove the protection cap from the transducer and slide it down the cable. Fill and flush the tubing system (dome, interconnecting tubing, stopcocks), prior to attaching dome to the transducer. To minimize the formation of bubbles, use fluid at room temperature or above and fill the system slowly. When this procedure is correctly followed, the filled tubing system should be free of bubbles and the dome diaphragm should not be distended. Attach the dome to the transducer (keep the filled dome vented to atmospheric pressure).

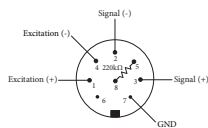
Note: There should not be any liquid between the dome membrane and the transducer. Mount the transducer at the level where the pressure is to be measured. Zero and calibrate the Bridge Amp according to the Owner's Guide.

Following use, clean, dry and store the transducer safely in its box. The domes are disposable; however for animal use, they may be used a number of times by thoroughly flushing them between use. Extra domes in sets of ten are available (MLA844).

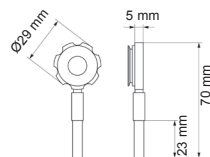
Application

The MLT844 Physiological Pressure Transducer is suitable for measuring arterial and venous blood pressure in animals. It may also be used to measure intracranial, gastrologic and intrauterine pressures as well as urodynamic measurements by catheterization.

Technical Diagram



Wiring diagram



Schematic diagram

Caution

Read "Statement of Intended Use" on our website or in "Getting Started with PowerLab" before use.

Specifications

| | |
|-------------------------------|--|
| Operating pressure range: | -20 to 300 mmHg |
| Maximum excitation: | 15 V DC or AC |
| Sensitivity: | 5 μ V/V/mmHg |
| Non-linearity and hysteresis: | 0.5% of full scale (maximum) |
| Output impedance: | 1000 Ω |
| Input impedance: | 700 Ω |
| Operating temperature range: | +10 $^{\circ}$ C to +50 $^{\circ}$ C |
| Storage temperature range: | -20 $^{\circ}$ C to +70 $^{\circ}$ C |
| Dimensions: | 70 \times 29 mm (2.8" \times 1.2") |
| Cable length: | 2.8 m (9.2') |
| Weight: | 24 g (without cable) |
| Connections: | 8-pin DIN |

All specifications were tested at the time of printing and are subject to change.

Ordering Information:

MLT844 Physiological Pressure Transducer
(includes MLAC20 Interface Cable)

For use with:

Any ADInstruments Bridge Amp
SP2881 Transducer Bracket