

7210687-003 - BMP-4 Mounting Instructions

Rev D

- 1) The BMP-4 can be mounted in two different ways:
 - a. Drill a size 10.1mm THRU HOLE (.3970" MIN) into test fixture [Option 1]
 - i. Thread panel nuts (included) on either side of test fixture
 - ii. Use a 12mm wrench to hold panel nuts and tighten
 - iii. Use a 9mm wrench to hold BMP-4 at wrench flat and tighten
 - b. Drill and tap a M10 x 1.0 hole [Option 2]
 - i. Apply Loctite 263 or similar onto desired thread location on BMP-4
 - ii. Thread BMP-4 into M10 x 1.0 hole WITHOUT included panel nuts
 1. Alternatively, use epoxy made for metal-plastic bonding for a permanent set-up
 - iii. Let Loctite/epoxy cure for manufacturer's recommended curing time before use
- 2) The recommended compression of the tip is .050" [1.27mm]. The FULLY EXTENDED nose length is .275". To make an ideal mark, ensure that the distance between the flat of the housing and the DUT is .225". Scribe mark diameter: .050" (1.27mm).
- 3) Recommended operating voltage: 12VDC, Normal current draw during scribe: approx. 20mA
- 4) Ensure that the wires are attached so that the motor spins CCW as shown (Attached the Red wire to the negative power source and attach the Black wire to the positive power source). Noted polarity must be observed to allow proper counter clockwise rotation. Reversed polarity can unscrew motor from housing.
- 5) Recommended duty cycle: 2 sec on, 3 sec off (minimum).

