



Aircraft And Medical Instruments

UMA, Inc.

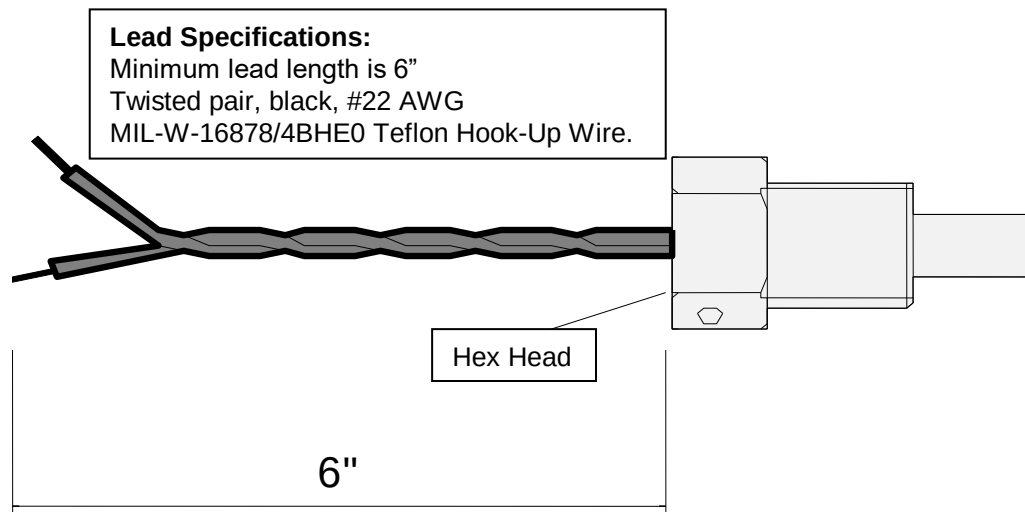
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Dayton, VA 22821

Installation Instructions 1B[]R Temperature Probe



Installation Instructions:

1. Mount unit as required to monitor desired temperature.
2. Straight threads (supplied with crush washer) crush washer should be installed with the unbroken side against the probe hex flange. Tighten to compress the washer slightly. (Finger tighten approx. 1/2" turn)
3. Pipe threads should have a thread sealant applied and tightened 1-3 turns past finger tight. Do NOT over-tighten.
4. Connect the 2 wires by connection diagram as seen on the UMA gauge installation instruction. There is no polarity.
5. One wire should always be connected to the Ground. The other wire goes to Pin#5 of the DB-9 or to the white wire on the gauge (Only if gauge came with wires on the back)
6. Use #22GA wire if length is 4 feet or less. If over 4 feet, use #18 and twist them from the beginning to the end to prevent RF.

Specifications:

Type:	DIN Class B
Material:	Thin Film Platinum
Operating Temp.:	-70°C to 165°C
Accuracy:	+/- 0.3°C @ 25°C
Resistance:	100 ohms @ 0°C

Models:

<u>Part#</u>	<u>Thread</u>	<u>Hex</u>	<u>Probe length (under hex)</u>
1B1R	1/8" NPT	1/2"	0.685"
1B2R	3/8-24	5/8"	0.915"
1B3R (longer threads)	5/8 -18	7/8"	1.10"
1B3AR(shorter threads)	5/8 -18	7/8"	1.10"
1B3A-2.5R	5/8 -18	7/8"	2.32"
1B4R	M10 -1.5	1/2"	0.875"
1B6R	M16 - 1.5	7/8"	2.32"
1B7R	M12 - 1.5	5/8"	0.915"
1B8R	1/4 - 20	3/8"	0.50"
1B9R	7/16 -20	3/8"	0.90"
1B10R	1/4 - 28	3/8"	0.50"
1B11R	1/4" NPT	7/8"	1.10"
1B12R	5/16-24	1/2"	1.75"
1B13R	1/8-27 NPT	1/2"	1.26"
1B14R	1/4-18 NPT	7/8"	1.50"
1B15R	1/2-20AN	7/8"	1.50"
1B16R	M6x1pitch	1/2"	1.00"
1B17R	3/8-18 NPT	7/8"	1.400"

Note: NPT threads do not use crush washer, only loctite. Never use teflon tape.

Warranty

UMA, Inc. warrants all products to be free from defects in material and workmanship under normal use and operation. UMA does not warrant any product which has been damaged as the result of accident, abuse, negligence, improper operational voltage, lightning, fire, flood, or other acts of nature. Any indication that the unit has been opened can void warranty. Under no circumstances shall UMA be liable for any loss or damage, direct, consequential or incidental, arising from the use of or inability to use this product.

This warranty is limited to the rebuild or replacement, at the manufacturer's option, of any product or part thereof, which has been returned to UMA within the specified warranty period, and which after examination shall disclose to the customer service department's satisfaction that the product is defective. Transportation to the factory or authorized service center must be prepaid; the product after rebuild or replacement will be returned at the expense of the dealer or end customer. This warranty does not apply to any product or integral part thereof, which has been altered or serviced by other than the manufacturer or authorized service center.

The warranty period is twelve (12) months to the user.

This warranty supersedes all other warranties either expressed or implied and shall be governed and executed under the laws of the Commonwealth of Virginia, U.S.A.