

# Thermowell

CE

Model A-500

RoHS



- 4", 6", 8" and 12" lengths
- Brass or stainless steel material
- Machined from a single piece of metal
- Withstands up to 3000 PSIG pressure
- 3/4" external with 1/2" internal or 1/2" external with 1/4" internal thread options
- BSPP 1/2" external with 1/4" NPT internal thread available

The A-500 thermowell is machined from a single piece of brass or stainless steel to provide a rugged and leakproof well for MAMAC Systems' temperature sensors. Each A-500 thermowell is precisely machined to 0.255" bore to provide a tight fit for our standard 1/4" O.D. probe. This feature also significantly enhances the thermal transfer from the media to the temperature sensor. The external and internal threads are machined to meet published specifications exactly, and each well is individually inspected to insure thread integrity. Hexagon wrench flats are provided to assist in installing the well in the pipe. Other thermowells that incorporate dissimilar metals like brass and copper which are welded/soldered together are susceptible to leaks caused by thermal shock. In HVAC applications, the temperature of the media may change rapidly, and due to different coefficient of thermal expansion, a welded/soldered thermowell may leak. The A-500 thermowell has a single piece construction and, as a result, is immune to leaks which may be caused by thermal shock or weak welds. The MAMAC A-500 thermowell is available in 4", 6", 8" and 12" lengths to handle pipe diameters from 4" to 24". With more than four length options, brass and stainless steel material choices, three external thread options, solid leakproof one piece construction, and precision machining, the A-500 thermowell can reliably accommodate all HVAC immersion temperature sensing applications. In order to improve thermal transfer and to eliminate condensation forming within the thermowell, MAMAC Systems offers a high grade thermal compound (A-505) for the A-500 thermowell.

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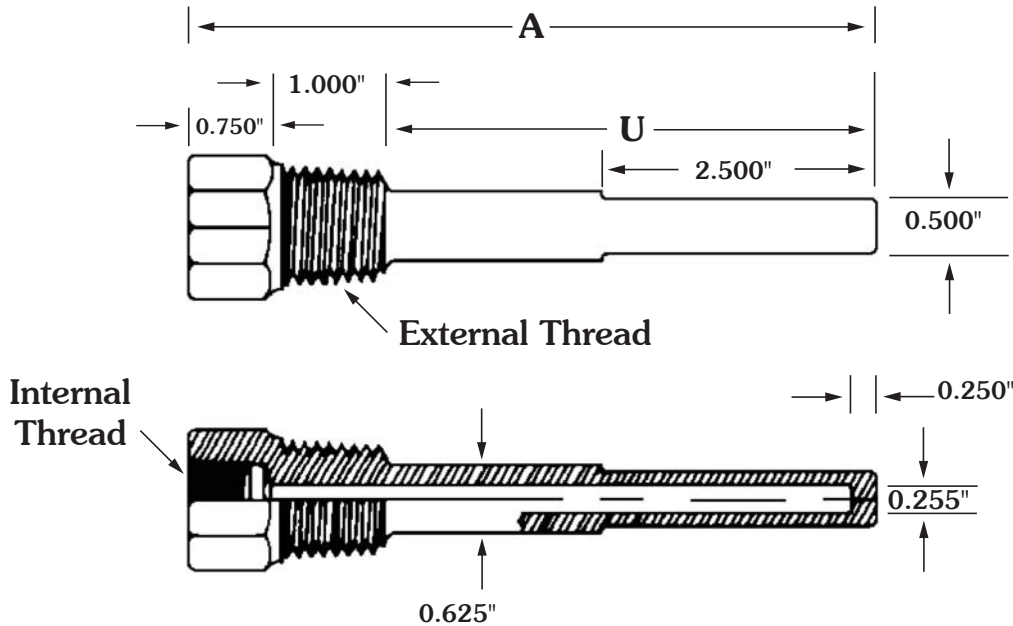
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# A-500

	<b>A</b>	<b>U</b>	<b>Weight</b>
<b>A-500-1</b> (4")	4¼" (108 mm)	2½" (64 mm)	.45 lbs (.21 kg)
<b>A-500-2</b> (6")	6¼" (159 mm)	4½" (114 mm)	.60 lbs (.27 kg)
<b>A-500-3</b> (8")	8¼" (210 mm)	6½" (165 mm)	.75 lbs (.34 kg)
<b>A-500-4</b> (12")	12¼" (311 mm)	8½" (216 mm)	1.0 lbs (.45 kg)



## ORDERING INFORMATION: A-500-

Length	Thread Size	Material
<b>1</b> 4 inches/100mm	<b>A</b> ¾" NPT External ½" NPT Internal	<b>1</b> Brass
<b>2</b> 6 inches/150mm		<b>2</b> Stainless Steel
<b>3</b> 8 inches/200mm	<b>B</b> ½" NPT External ¼" NPT Internal	
<b>4</b> 12 inches/300mm	<b>E</b> ½" BSPP External ¼" NPT Internal	

**Example: A-500-2-A-1:** 6" Thermowell with ¾" NPT External and ½" NPT Internal thread size, Brass.

**CAUTION:** Do not use in explosive/hazardous environment or with flammable/combustible media.

## A-500



**MAMAC Systems is the leading global manufacturer of sensors, transducers, control peripherals and web browser based IP appliances. MAMAC products are used for HVAC and environmental controls, remote monitoring, alarming, energy metering and industrial automation.**

**All MAMAC products are manufactured in the USA.**

**WARRANTY:** MAMAC Systems, Inc. and its subsidiaries (hereinafter referred to as MAMAC Systems) warrants its products to be free of defects in material and workmanship for a period of five (5) years from date of shipment. If a unit is malfunctioning, it must be returned to the factory for evaluation. A return authorization number (RMA) will be issued by the customer service department and this number must be written or prominently displayed on the shipping boxes and all related documents. The defective part should be shipped freight pre-paid to the factory. Upon examination by MAMAC Systems, if the unit is found to be defective, it will be repaired or replaced at no charge to the customer. However, this warranty is void if the unit shows evidence of being tampered with, damaged during installation, misapplied, misused, or used in any other operating condition outside of the unit's published specifications.

**MAMAC Systems makes no other warranties or representations of any kind whatsoever, expressed or implied, except that of title. All implied warranties including any warranty of merchantability and fitness for a particular purpose are hereby disclaimed. User is responsible to determine suitability for intended use.**

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Every precaution for accuracy has been taken in the preparation of this manual, however, MAMAC Systems neither assumes responsibility for any omissions or errors that may appear nor assumes liability for any damages that result from the use of the product in accordance with the information contained in the manual.

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