



How to Determine the Probe Length of a Fixed Bayonet Probe Thermocouple

We recently received a question about how to determine what the probe length is of a fixed bayonet probe thermocouple. In order to determine probe length, you can view a table located on our Thermocouple Accessories page of our website.

For example: You have a 1/2" hole depth and would like to use a 7/8" long bayonet adapter. What would the probe length be?

"C" Hole Depth	7/8" Long Adapter	1 1/2" Long Adapter	2 1/2" Long Adapter
1/4" to 1/2" (6.4mm to 12.7mm)	1 3/4" (44.4mm)	2 3/8" (60.3mm)	3 3/8" (85.7mm)
1/2" to 1" (12.7mm to 25.4mm)	2" (50.8mm)	2 5/8" (66.7mm)	3 5/8" (92.1mm)
1" to 1 1/2" (25.4mm to 38.1mm)	2 1/2" (63.5mm)	3 1/8" (79.4mm)	4 1/8" (104.8mm)
1 1/2" to 2" (38.1mm to 50.8mm)	3" (76.2mm)	3 5/8" (92.1mm)	4 5/8" (117.4mm)
2" to 2 1/2" (50.8mm to 63.5mm)	3 1/2" (88.9mm)	4 1/8" (104.8mm)	5 1/8" (130.2mm)
2 1/2" to 3" (63.5mm to 76.2mm)	4" (101.6mm)	4 5/8" (117.5mm)	5 5/8" (142.9mm)
3" to 3 1/2" (76.2mm to 88.9mm)	4 1/2" (114.3mm)	5 1/8" (130.2mm)	6 1/8" (155.6mm)
3 1/2" to 4" (88.9mm to 101.6mm)	5" (127.0mm)	5 5/8" (142.9mm)	6 5/8" (168.3mm)
4" to 4 1/2" (101.6mm to 114.3mm)	5 1/2" (139.7mm)	6 1/8" (155.6mm)	7 1/8" (181.0mm)
4 1/2" to 5" (114.3mm to 127.0mm)	6" (152.4mm)	6 5/8" (168.3mm)	

According to the above chart you would look at the "C" Hole Depth column and find the row that has 1/4" - 1/2". Then, follow that row over to the 7/8" Long Adapter column. You can see that the probe length for those measurements is 1 3/4".

Do you have a question that could possibly be featured on our blog? Contact Thermal Corporation customer service at sales@thermalcorp.com or by using the chat feature located at the bottom of each page on our website, www.thermalcorporation.com!