

# Temperature

Temperature Probes

## Digi-Sense® Flexible Insulated-Wire Thermocouple Probes

All insulated-wire probes include straight insulated cable with no handle. Fiberglass and ceramic insulated probes have exposed junctions; use for high-temperature applications. Exposed junction probes are not recommended for use with aqueous solutions (type J exposed-junction probes will rust when exposed to moisture).



Type	Dimensions†	Temperature range °F (°C)††	Accuracy	Catalog number	Price*	Photo
<b>PVC-insulated probe with PVC-coated tip (ungrounded); short-term immersible.</b>						
T	Tip: 0.168" dia OD: 0.088" x 0.140"; Length: 5-ft Wire: 24 gauge (0.020 dia) Miniconnector	-418 to 221 (-250 to 105)	±0.9°F (±0.5°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GH-08505-90</a>		
<b>PVC-insulated probe with PVC-coated tip (ungrounded); short-term immersible.</b>						
J	Tip: 0.166" dia	-310 to 221 (-190 to 105)	±2.0°F (±1.1°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GH-08466-02</a>		
K	OD: 0.090" x 0.155"; Length: 10-ft Wire: 20 gauge (0.032 dia) Miniconnector	-418 to 221 (-250 to 105)	±2.0°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GH-08466-04</a>		
T	Miniconnector	-418 to 221 (-250 to 105)	±0.9°F (±0.5°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GH-08466-06</a>		
<b>PVC-insulated probes with exposed tip (exposed). Use for general purpose readings; not recommended for use in aqueous environments.</b>						
J	OD: 0.020" dia	-310 to 221 (-190 to 105)	±2.0°F (±1.1°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GH-08515-00</a>		
K	Length: 3-ft Wire: 24 gauge (0.020 dia) Miniconnector	-418 to 221 (-250 to 105)	±0.9°F (±0.5°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GH-08515-01</a>		
T	Miniconnector	-418 to 221 (-250 to 105)	±0.9°F (±0.5°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GH-08515-02</a>		
<b>FEP-insulated probes with FEP-coated junction (ungrounded); long-term immersible probes. FEP insulation allows use in semi-caustic environments.</b>						
J	Tip: 0.120" dia	-310 to 400 (-190 to 204)	±2.0°F (±1.1°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GH-08466-81</a>		
K	OD: 0.056 x 0.093"; Length: 10-ft Wire: 24 gauge (0.032 dia) Miniconnector	-418 to 400 (-250 to 204)	±2.0°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GH-08466-82</a>		
T	Miniconnector	-418 to 400 (-250 to 204)	±0.9°F (±0.5°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GH-08466-83</a>		
J	Tip: 0.120" dia	-310 to 400 (-190 to 204)	±2.0°F (±1.1°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GH-08113-21</a>		
K	OD: 0.056 x 0.093"; Length: 10-ft Wire: 20 gauge (0.032 dia)	-418 to 400 (-250 to 204)	±2.0°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GH-08113-22</a>		
T	Stripped leads	-418 to 400 (-250 to 204)	±0.9°F (±0.5°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GH-08113-23</a>		
<b>Chemical resistant FEP-insulated probes (exposed). Use for general purpose readings; not recommended for use in aqueous environments.</b>						
J	OD: 0.056 x 0.093"	-310 to 400 (-190 to 204)	±2.0°F (±1.1°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GH-08516-81</a>		
K	Length: 10-ft Wire: 24 gauge (0.020 dia) Miniconnector	-418 to 400 (-250 to 204)	±0.9°F (±0.5°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GH-08516-82</a>		
T	Miniconnector	-418 to 400 (-250 to 204)	±0.9°F (±0.5°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GH-08516-83</a>		
<b>Kapton®-insulated probe (exposed). Use for general purpose readings. Ideal for environments that require slightly higher temperature than FEP/PFA can provide.</b>						
J	OD: 0.056 x 0.093" Length: 10-ft Wire: 24 gauge (0.020 dia) Miniconnector	-310 to 600 (-190 to 315)	±2.0°F (±1.1°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GH-08517-90</a>		
<b>Kapton®-insulated probe (exposed). Ideal for checking food temperatures; faster response time than most insulated wire probes. Sold in packs of 6.</b>						
J	OD: 0.052" dia	-310 to 600 (-190 to 315)	±2.0°F (±1.1°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GH-08505-87</a>		
K	Length: 5-ft Wire: 30 gauge (0.010 dia) Miniconnector	-418 to 600 (-250 to 315)	±0.9°F (±0.5°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GH-08505-86</a>		
T	Miniconnector	-418 to 600 (-250 to 315)	±0.9°F (±0.5°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GH-08505-85</a>		
<b>Fiberglass-insulated probe (exposed). Use for high-temperature measurements; not recommended for moist or wet environments.</b>						
J	OD: 0.052 x 0.081"	-310 to 900 (-190 to 482)	±2.0°F (±1.1°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GH-08512-81</a>		
K	Length: 10-ft Wire: 24 gauge (0.020 dia) Miniconnector	-418 to 900 (-250 to 482)	±0.9°F (±0.5°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GH-08512-82</a>		
T	Miniconnector	-418 to 750 (-250 to 400)	±0.9°F (±0.5°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GH-08512-83</a>		
<b>High-temperature fiberglass-insulated probes (exposed). Use for high-temperature measurements; not recommended for moist or wet environments</b>						
J	OD: 0.08 x 0.13"; Length: 10-ft Wire: 20 gauge (0.032 dia) Miniconnector	-418 to 1300 (-250 to 704)	±2.0°F (±1.1°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GH-08467-22</a>		
K	Miniconnector	-418 to 1300 (-250 to 704)		<a href="#">GH-08467-24</a>		
J	OD: 0.08 x 0.13"; Length: 10-ft Wire: 20 gauge (0.032 dia)	-418 to 1300 (-250 to 704)		<a href="#">GH-08113-30</a>		
K	Stripped leads	-418 to 1300 (-250 to 704)	<a href="#">GH-08113-31</a>			
<b>High-temperature ceramic fiber-insulated probes (exposed). For high-temperature measurements (ceramic fiber cannot be handled after 800°F [426°C] due to flaking of insulation).</b>						
K	Tip: 0.40" dia OD: 0.10 x 0.16" Length: 5-ft Wire: 20 gauge (0.032 dia) Miniconnector	-418 to 2000 (-250 to 1093)	±2.0°F (±1.1°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GH-08467-64</a>		
<b>PTFE-insulated fast response probes (ungrounded). Implant in semisolids for fast response. Five 40-gauge needles included.</b>						
J	Tip: 40 gauge needle	-310 to 400 (-190 to 204)	±2.0°F (±1.1°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GH-08113-27</a>		
K	Length: 3-ft Wire: 40 gauge (0.003 dia)	-418 to 400 (-250 to 204)	±0.9°F (±0.5°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GH-08113-28</a>		
T	Stripped leads	-418 to 400 (-250 to 204)	±0.9°F (±0.5°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GH-08113-29</a>		

††Temperature range is for the probe tip only. The handle material may be affected if the probe is rated higher than the handle depending on exposure time, application, and handle material. ABS handles are rated to 220°F (104°C); PVC handles are rated to 200°F (93°C); Stainless steel handles are rated to 450°F (232°C).

\*Overall probe sheath lengths may vary up to ±0.25".

\*Discounts: Save 10% on 6-10 probes of any assortment, 15% on 11-24 probes, and 20% on 25-50 probes.