

## Temperature

### Digi-Sense® Specialty Surface Thermocouple Probes with Miniconnector End

These probes are ideal for special applications in an industrial environment. Probes with handles feature a strain relief spring that protects the cable connection against damage due to repeated flexing and tugging. ABS handles provide a lightweight design for ease of use along with durability.



| Type                                                                                                                                                                                                                                                | Dimensions†                                                                               | Temperature range °F (°C)†† | Accuracy                                                                         | Catalog number              | Price* | Photo |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-----------------------------|----------------------------------------------------------------------------------|-----------------------------|--------|-------|
| <b>Flexible surface probes with 304 SS shim and ABS handle (exposed).</b> Measure moving rollers and similar convex surfaces with a flexible ribbon-mounted thermocouple stretched across a T-shaped bow.                                           |                                                                                           |                             |                                                                                  |                             |        |       |
| J                                                                                                                                                                                                                                                   | Bow: 4"L<br>Sheath: 10.5"L<br>Cable: 5-ft coiled cord<br>Miniconnector                    | –310 to 600 (–190 to 316)   | ±7.9°F (±4.4°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C) | <a href="#">GH-08517-95</a> |        |       |
| K                                                                                                                                                                                                                                                   |                                                                                           | –418 to 900 (–250 to 482)   |                                                                                  | <a href="#">GH-08516-95</a> |        |       |
| T                                                                                                                                                                                                                                                   |                                                                                           | –418 to 450 (–250 to 232)   | ±3.6°F (±2.0°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C) | <a href="#">GH-08500-95</a> |        |       |
| E                                                                                                                                                                                                                                                   |                                                                                           | –418 to 600 (–250 to 316)   | ±6.7°F (±3.7°C), or ±0.4% of rdg above 32°F (0°C); ±0.5% of rdg below 32°F (0°C) | <a href="#">GH-08512-95</a> |        |       |
| <b>Rolling wheel surface probe with 304 SS shim, PTFE tip guard and PVC handle (exposed).</b> Measure temperature of rotary and other moving surfaces. Feature adjustable handle for use at any angle. Maximum surface speed is 300ft/min.          |                                                                                           |                             |                                                                                  |                             |        |       |
| K                                                                                                                                                                                                                                                   | Head: 2.75"L x 2.4"W<br>Handle: 4.75"L<br>Cable: 5-ft coiled cord<br>Miniconnector        | –418 to 450 (–250 to 232)   | ±7.9°F (±4.4°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C) | <a href="#">GH-08445-31</a> |        |       |
| <b>Surface probes with 301 SS shim, PTFE tip guard and SS handle (grounded).</b> Designed for quick, precise temperature measurements of moving or stationary surfaces. Maximum surface speed is 2500 ft/min. PTFE guard protects exposed junction. |                                                                                           |                             |                                                                                  |                             |        |       |
| J                                                                                                                                                                                                                                                   | Head: 2.4"L x 1.4"W<br>Handle: 5.5"L                                                      | –310 to 450 (–190 to 232)   | ±5.9°F (±3.3°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C) | <a href="#">GH-08533-69</a> |        |       |
| K                                                                                                                                                                                                                                                   | Cable: 3-ft SS braided<br>Miniconnector                                                   | –418 to 450 (–250 to 232)   |                                                                                  | <a href="#">GH-08533-63</a> |        |       |
| <b>Hose clamp probes, 304 SS (grounded).</b> Permanently install on hoses, piping, and small round vessels.                                                                                                                                         |                                                                                           |                             |                                                                                  |                             |        |       |
| J                                                                                                                                                                                                                                                   | Clamp: 0.50"W for 0.44-1.00" dia                                                          | –310 to 900 (–190 to 482)   | ±5.9°F (±3.3°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C) | <a href="#">GH-08469-20</a> |        |       |
| K                                                                                                                                                                                                                                                   | Cable: 10-ft SS braided<br>Miniconnector                                                  | –418 to 900 (–250 to 482)   |                                                                                  | <a href="#">GH-08469-22</a> |        |       |
| T                                                                                                                                                                                                                                                   |                                                                                           | –418 to 750 (–250 to 399)   | ±2.7°F (±1.5°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C) | <a href="#">GH-08469-24</a> |        |       |
| J                                                                                                                                                                                                                                                   | Clamp: 0.50"W for 0.50-1.50" dia                                                          | –310 to 900 (–190 to 482)   | ±5.9°F (±3.3°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C) | <a href="#">GH-08469-30</a> |        |       |
| K                                                                                                                                                                                                                                                   | Cable: 10-ft SS braided<br>Miniconnector                                                  | –418 to 900 (–250 to 482)   |                                                                                  | <a href="#">GH-08469-32</a> |        |       |
| T                                                                                                                                                                                                                                                   |                                                                                           | –418 to 750 (–250 to 399)   | ±2.7°F (±1.5°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C) | <a href="#">GH-08469-34</a> |        |       |
| J                                                                                                                                                                                                                                                   | Clamp: 0.50"W for 1.25-2.25" dia                                                          | –310 to 900 (–190 to 482)   | ±5.9°F (±3.3°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C) | <a href="#">GH-08469-40</a> |        |       |
| K                                                                                                                                                                                                                                                   | Cable: 10-ft SS braided<br>Miniconnector                                                  | –418 to 900 (–250 to 482)   |                                                                                  | <a href="#">GH-08469-42</a> |        |       |
| T                                                                                                                                                                                                                                                   |                                                                                           | –418 to 750 (–250 to 399)   | ±2.7°F (±1.5°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C) | <a href="#">GH-08469-44</a> |        |       |
| <b>Nickel-plated steel alligator clip probes (exposed).</b> Clip onto objects inside ovens or dry hot environments. Exposed junction probe is mounted in clip.                                                                                      |                                                                                           |                             |                                                                                  |                             |        |       |
| J                                                                                                                                                                                                                                                   | Clip: 2"L x 0.38"W opening                                                                | –310 to 650 (–190 to 343)   | ±4.0°F (±2.2°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C) | <a href="#">GH-08468-20</a> |        |       |
| K                                                                                                                                                                                                                                                   | Cable: 10-ft SS braided<br>Miniconnector                                                  | –418 to 650 (–250 to 343)   |                                                                                  | <a href="#">GH-08468-22</a> |        |       |
| T                                                                                                                                                                                                                                                   |                                                                                           | –418 to 650 (–250 to 343)   | ±1.8°F (±1.0°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C) | <a href="#">GH-08468-24</a> |        |       |
| <b>Dropping/magnetic probes with aluminum housing (exposed).</b> Attach magnetic probe to any flat ferrous surface.                                                                                                                                 |                                                                                           |                             |                                                                                  |                             |        |       |
| J                                                                                                                                                                                                                                                   | OD: 1.5"L x 1" dia<br>Cable: 5-ft coil cord<br>Miniconnector                              | –310 to 1200 (–190 to 649)  | ±7.9°F (±4.4°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C) | <a href="#">GH-08517-86</a> |        |       |
| K                                                                                                                                                                                                                                                   |                                                                                           | –418 to 1200 (–250 to 649)  |                                                                                  | <a href="#">GH-08516-86</a> |        |       |
| T                                                                                                                                                                                                                                                   |                                                                                           | –418 to 650 (–250 to 343)   | ±3.6°F (±2.0°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C) | <a href="#">GH-08500-86</a> |        |       |
| J                                                                                                                                                                                                                                                   | OD: 1.5"L x 1" dia<br>Cable: 10-ft fiberglass wire, SS overbraid<br>Miniconnector         | –310 to 1200 (–190 to 649)  | ±5.9°F (±3.3°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C) | <a href="#">GH-08519-86</a> |        |       |
| K                                                                                                                                                                                                                                                   |                                                                                           | –418 to 1200 (–250 to 649)  |                                                                                  | <a href="#">GH-08514-86</a> |        |       |
| T                                                                                                                                                                                                                                                   |                                                                                           | –418 to 650 (–250 to 343)   | ±2.7°F (±1.5°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C) | <a href="#">GH-08525-86</a> |        |       |
| <b>Bolt-on washer probes, 304 SS with fiberglass cable (grounded).</b> Use for measuring machinery or mold temperatures. Not recommended for applications in damp or wet environments                                                               |                                                                                           |                             |                                                                                  |                             |        |       |
| J                                                                                                                                                                                                                                                   | Washer: 0.62" OD x 0.28" ID<br>Cable: 25-ft fiberglass<br>Miniconnector                   | –310 to 900 (–190 to 482)   | ±5.9°F (±3.3°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C) | <a href="#">GH-08519-84</a> |        |       |
| K                                                                                                                                                                                                                                                   |                                                                                           | –418 to 900 (–250 to 482)   |                                                                                  | <a href="#">GH-08514-84</a> |        |       |
| T                                                                                                                                                                                                                                                   |                                                                                           | –418 to 750 (–250 to 399)   | ±2.7°F (±1.5°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C) | <a href="#">GH-08525-84</a> |        |       |
| <b>Heavy duty bolt-on washer probes, 304 SS (grounded).</b> Bolt washer to fixed surfaces for continuous monitoring. Not recommended for applications in damp or wet environments                                                                   |                                                                                           |                             |                                                                                  |                             |        |       |
| J                                                                                                                                                                                                                                                   | Washer: 0.62" OD x 0.28" ID<br>Cable: 5-ft fiberglass wire with SS armor<br>Miniconnector | –310 to 900 (–190 to 482)   | ±5.9°F (±3.3°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C) | <a href="#">GH-08517-85</a> |        |       |
| K                                                                                                                                                                                                                                                   |                                                                                           | –418 to 900 (–250 to 482)   |                                                                                  | <a href="#">GH-08516-85</a> |        |       |
| T                                                                                                                                                                                                                                                   |                                                                                           | –418 to 750 (–250 to 399)   | ±2.7°F (±1.5°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C) | <a href="#">GH-08500-85</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