

Conax Buffalo offers an assortment of termination styles and terminal heads for multiple environment and application uses. In this section, the maximum service temperature cited applies to the terminal head without the thermocouple sensor. Thermocouple sensor cold end sealant maximum temperature is 300° F (150° C). Higher temperature cold end seals are available (consult factory). Specified dimensions are nominal values and do not include the length of sealing glands.

T1



This most basic termination is available on all Conax Buffalo probes.

- Probe end is impregnated with moisture-resistant compound to prevent liquid or gas penetration.
- Standard leads are 1" long on all but the 0.040" diameter, which uses 5/8" leads. Longer leads are available. Specify in inches, e.g. T1(3").
- Leads are solid wire color-coded Teflon sleeved.
- Maximum service temperature: 300° F (150° C)

T2 - Thermocouple

This termination features swaged magnesium oxide insulation surrounding the elements, with silicone-impregnated fiberglass leadwire insulation swaged approximately 3/4" into the sheath.

- The fiberglass insulation protects the integral leadwires under mildly adverse atmospheric conditions (not recommended where excessive vibration and abrasion are encountered).
- Standard cold end lead length is 24". Longer leads are available on request. Specify in feet, e.g. T2(3FT).
- Available with the following sheath sizes: 0.062" (AWG 30 leadwire), 0.125" (AWG 24 leadwire), and 0.187" (AWG 20 leadwire). Maximum sheath length is 5 ft.
- Service temperature upper limit: 700° F (370° C)

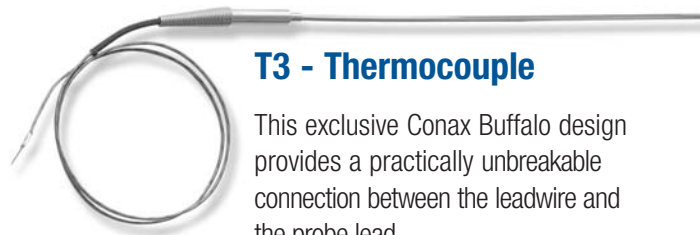
T2 - RTD

This termination features aluminum oxide powder insulation surrounding the element and Teflon-insulated leadwires, all capped with potting compound to prevent moisture penetration.

- The Teflon insulation protects the integral leadwires under mildly adverse atmospheric conditions.
- Unit is to be used straight. Bending is not recommended.
- Standard cold end lead length is 24". Longer leads are available on request. Specify in feet, e.g. T2(3FT).
- Standard probe diameter is 0.250".
- Service temperature upper limit: 300° F (150° C)



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T3 - Thermocouple

This exclusive Conax Buffalo design provides a practically unbreakable connection between the leadwire and the probe lead.

- Silicone impregnated fiberglass braid insulation
- Leadwires are joined in the adaptor housing, secured by a special strain harness for diameters of 0.187" or smaller, and encapsulated in potting compound to prevent moisture penetration.
- Spring dampens and reduces vibration and abrasion.
- Standard cold end lead length is 24". Longer leads are available on request. Specify in feet, e.g. T3(3FT).
- Service temperature upper limit: 300° F (150° C).
- Leads sizes: AWG 20 for sheath sizes 0.125" to 0.375"; AWG 24 for 0.040" and 0.062" sheath diameters.
- The terminal barrel is larger than the sheath, crimped to the sheath and filled with potting compound to prevent moisture penetration. Barrel diameter sizes: 0.040" to 0.187" sheath diameter – 0.312", 0.250" sheath diameter – 0.375", 0.375" sheath diameter – 0.500".
- T3(HT) high temperature model uses high temperature insulation compound to achieve service temperature upper limit of 900° F (480° C).

T3 - RTD

This exclusive Conax Buffalo design provides a practically unbreakable connection between the leadwire and the probe lead.

- Standard leadwires are 24 AWG stranded silver-plated copper, Teflon-insulated wire with Teflon overall.
- Leadwires are joined in the adaptor housing, secured by a special strain harness for diameters of 0.187" or smaller, and encapsulated in potting compound to prevent moisture penetration.
- Spring dampens and reduces vibration and abrasion.
- Standard cold end lead length is 24". Longer leads are available on request. Specify in feet, e.g. T3(3FT).
- Service temperature upper limit: 300° F (150° C).
- The terminal barrel is larger than the sheath, crimped to the sheath and filled with potting compound to prevent moisture penetration. Barrel diameter sizes: up to 4-wire probes – 0.375", 6- and 8-wire probes – 0.500".