

# semblies & Hardware

## Integrated Circuit Sensors



An integrated circuit sensor uses a small temperature transducer to convert temperature input into a proportional current output. These sensors are designed for use in temperatures from -67° to 302° F (-55° to 150° C) where solid state reliability and accuracy are required. Sensor output (within this temperature range) is  $1\mu A/^{\circ}K$ . These sensors are also useful in remote sensing applications, as the high impedance current output makes them insensitive to voltage drops over long lines.

## Multiple Quick Disconnect



### CATALOG TYPE MQD

Multiple Quick Disconnect assemblies are available for E, J, T and K calibrations. This six-pin configuration is polarized for each thermocouple type to eliminate sensor mismatch. The plug and receptacle use base metal thermocouple contacts, molded and staked in phenolic inserts. The plug is brazed to the thermocouple probe and filled with epoxy. The receptacle features Teflon-insulated twisted shielded pair conductors. When mated, the connector is waterproof. The termination and sensor sheath are supplied as an integral unit.

**Example:** *E-SS25-2U-MQD-MK250A-12.00"*

## Weld Pads

To facilitate welding thermocouples to surfaces in



the field, Conax Buffalo can fit the measuring junction with a weld pad. Flat or curved pads are 0.125" thick x 1.00" square and are available in 304 or optional 316 stainless steel. Flat pads may be welded flat (Style F) or perpendicular (Style P). Curved pads may also be welded flat (FC) or perpendicular (PC) and offer a choice of radius of 0.567" (for 1" nominal pipe) or 0.875" (for 1.5" nominal pipe).

## Armored Assemblies



Sensor assemblies can be provided with helically wound stainless steel interlocked armor cable for exceptional mechanical strength, flexibility and RFI/EMI resistance. One of our more popular models consists of a T3 assembly terminated with a Conax Buffalo PJ male plug. This assembly is ideal for rugged service in physically demanding environments where the leadwires could be exposed to compression and wire abrasion.

**Example:** *J-SS12-G-T3(ARM 20FT)-PJC-12.00"*

