

MULTICOUPLES

FREE HANGING MULTICOUPLES are the least expensive and provide for the largest number of thermocouples or RTD's contained in one protection tube. Each sensor is factory set at the desired length for accurate gradient temperature measurement by responding to the transfer temperature from the surface of the protection tube. Elements are bundled and may be held with stainless steel straps for ease of installation and removal. Bundle is secured inside the junction box with a custom made clamp to prevent movement. Each element is terminated inside the junction box with an epoxy filled transition and stranded lead wire connected to a terminal strip. Terminal strips are numbered to identify each element location.

Protection tubes are fabricated from pipe in a number of sizes and can be welded together for lengths of greater than twenty feet. Process connection can be flanged or a threaded bushing. Protection tubes are usually connected to a union and nipple extension allowing the junction box to be located away from excess heat or other obstacles. The union allows rotation of the box for conduit positioning. Protection tubes can also be fabricated by others on site.

Junction boxes are available in sheet steel, stainless steel, fiberglass, cast iron, cast aluminum for indoor, outdoor or hazardous locations. Tube and conduit openings can be located to suit site installation.

Terminal strips are available in thermocouple alloy or modular type. Factory set and installed rail mounted transmitters or averaging circuitry can be installed in place of terminal strips.

MAXIMUM NUMBER OF SENSORS

PIPE SIZE	3/16" DIAMETER SENSORS			1/4" DIAMETER SENSORS		
	Sch.-40	Sch.-80	Sch.-160	Sch.-40	Sch.-80	Sch.-160
1/2"NPS	7	4	3	3	2	N/A
3/4"NPS	10	8	6	7	5	3
1"NPS	20	16	10	10	8	7
1 1/2"NPS	39	36	31	26	22	19

