

MULTICOUPLES

SPRING LOADED MULTICOUPLES assure constant contact of the sensor tip to the inside wall of the protection tube thereby improving the response time of the measured location over the free hanging design. The spring is shaped from an inconel strip and tempered for stiffness at high temperatures. The spring is attached to the sheath of the sensor opposite side of the tip which is set at an angle and pushed against the wall of the protection tube. RTD's are bent to assure the entire stem sensing area sets against the tube wall. Each sensor is factory set at the desired length. 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 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.

