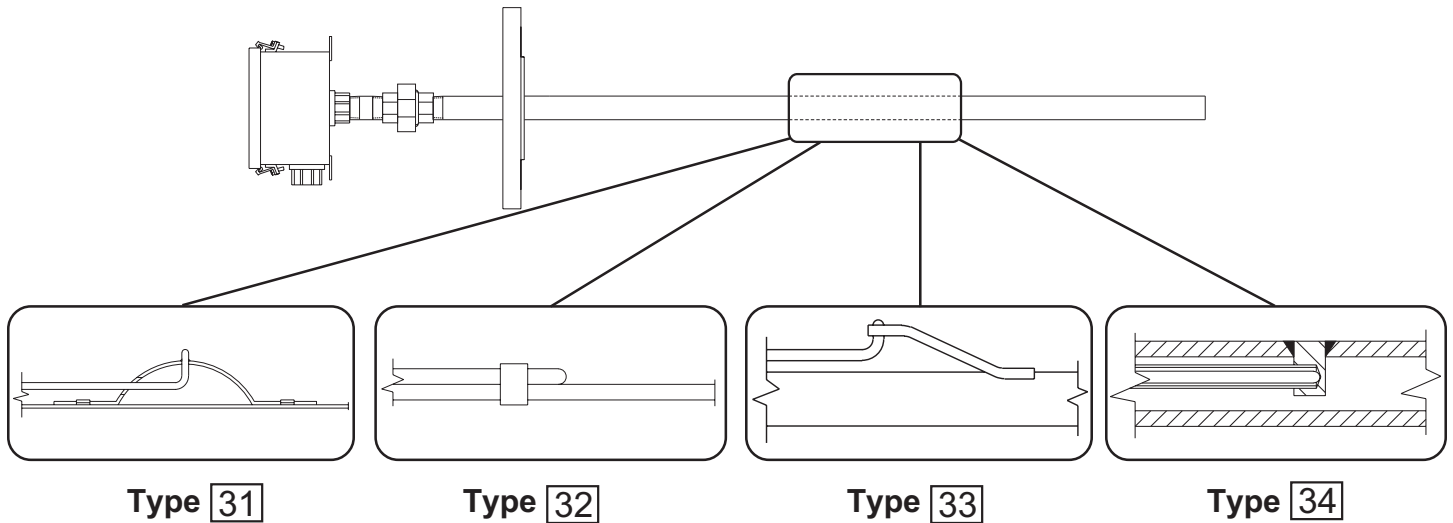


TYPE 3 Multipoint Temperature Sensors



TYPE 31

1/16" thick **FLEXIBLE STRIP**, 304 SS is mounting base for metal sheathed MgO insulated THERMOCOUPLES of 1/8" or 3/16" diameter. Flexible design allows for ease of installation when space is limited or straight-in access is prohibited. Junction springloads against the inner wall of the well. Intimate contact of the sensor with the well wall assures fast time response. Easily coiled/uncoiled for ease of shipment and installation. The entire inner assembly can be removed for repair or replacement without process shutdown.

TYPE 32

BUNDLE SENSOR UNIT uses MgO insulated metal sheathed THERMOCOUPLES, RTD's, or THERMISTORS. Diameters of 1/8" and larger are available as required by bore size and number of sensing points required. Sensors can be packed either in one or two layers around a support core. Can be mounted with or without a thermowell by use of threaded sealing fitting.

TYPE 33

SPRINGLOADED BUNDLE — THERMOCOUPLES, RTD's, or THERMISTORS — MgO insulated metal sheathed sensors attach to a guide rod and are held against the well wall by means of either a leaf spring or bimetal strip activated at operating temperature. Positive contact is the result of the integrity of the spring.

TYPE 34

GUIDE TUBE UNIT — THERMOCOUPLES, RTD's — Wells have high mechanical strength for use in high pressure, high temperature, or extremely adverse environments. Individual MgO insulated metal sheathed sensors are springloaded within their respective guide tubes. Hot junction terminates directly against a plug welded to the wall of the well insuring excellent temperature transfer and fast response. Extremely long life with little maintenance, greater reliability. Sensors can be replaced individually, safely and easily without shutdown of the process.

Multipoint assemblies are generally housed within a custom flanged well or pipe protection tube able to withstand the temperatures, pressures and corrosives within the vessel. Junction boxes of sheet steel, stainless, cast iron or aluminum (epoxy-coated if necessary) for general purpose, weatherproof or explosion-proof environments are either local or remote mounted. Any type of intermediate hardware can be supplied to interface the box with the well/sensor assembly.

- SPECIAL DESIGNS include:**
- "miniatures," small diameter units holding many probes with lengths over 100 feet
 - wells with cold end sealed against possible intrusion of process into enclosure
 - open ended guide tube assemblies permitting extension of sensor directly into process per your specifications

