

# MODELS P51 AND P52 RIGID SENSING PROBES DIRECTLY INSERTED INTO THE VESSEL

TS P51

## ADVANTAGES FOR LIQUIDS AND INTERFACES

- General purpose for most applications
- Simple construction and easily installed
- Small 3/4" MPT process connection size
- PTFE Teflon® insulation allows operation in conductive or nonconductive liquids at high temperatures
- High pressure Teflon® seal is reliable; up to 1500 PSIG (100 bar) working pressure @ 100°F (40°C)
- Up to 450°F (230°C) process temperature
- Clamped Teflon® seal is reliable, thousands have been in service for more than 30 years.
- Double gland seal available for lethal service
- Open design resists material deposition and is easy to clean; sanitary flanges are also available
- Easy to install, vertically or horizontally; top down, bottom up, or in from the vessel side
- Can be used in many slurry and entrained solids applications

## APPLICATION

The P51 and P52 probes are designed as a general purpose sensor for use in many common applications. The sensing rod is jacketed in thick extruded and welded PTFE Teflon®. There are no thin coatings or glued joints to fail.

The sensing rod sealing gland is extremely reliable. Thousands have been installed over the last 30 years, sealing in such process materials as steam, hydrogen cyanide, gasoline, chlorine, liquid oxygen, chocolate, and wastewater. The gland follower seals are inside the body, which has a solid exterior. There are no screwed together joints in the gland which can inadvertently be turned, causing leaks, environmental spills, and toxic discharges. The gland body may be made of exotic metal or industrial plastics for highly corrosive service.

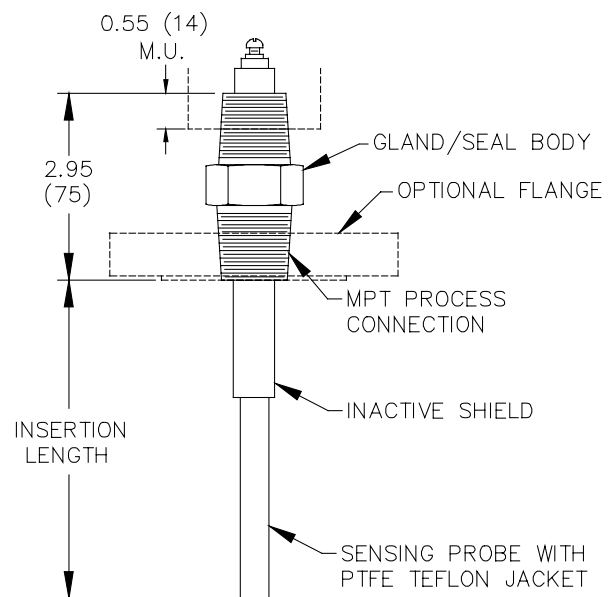
The P52 probe has the same appearance as the P51 probe except that it has a larger gland, seal, and sensing probe. It is intended for use in services with higher mechanical stress, such as agitated tanks, services requiring long unsupported sensing rods, mixers, and the like.

## SPECIFICATIONS

- Working Pressure:** 1500 PSIG (100 BAR) at 100°F (40°C)  
**Working Temperature:** -460 to +400°F (-273 to +200°C)  
**Temperature Extension:** Required for less than -20°F (-30°C) or higher than 175°F (80°C)  
**Insertion Length:** To 20 feet (6 M)  
**Process Connection:** MPT basic, flanged (any type) is optional  
**Electronics Module:** Compatible with all models  
**Wall Mount Support Bracket:** Optional  
**Process Temperature Sensing:** Optional on P52 only; any span from -125 to 250°F (-85 to 120°C); over a second 4-20 mA isolated signal loop.



## OUTLINE DIMENSIONS



**DELTA CONTROLS** Corporation

