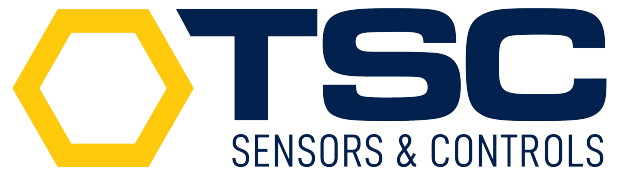


Selecting Pressure Transducers Level Applications



Pressure is one of the simplest ways to measure liquid level, with limited process data and simple math a quick easy installation can be achieved

Mount Through Top or Side of Tanks pressure transducers provide a great, cost-effective method for measuring liquid levels. From measuring inventories in process storage tanks to monitoring hot water feed tanks, our design flexibility promotes easy installation, with mounting either through the tank top or from the side.

A force that is exerted on the transducers diaphragm by the process media creating a linear output. Knowing the specific gravity and the depth of the liquid being measured will determine the pressure range required to specify the correct pressure transducer.

$$\text{Pressure in PSI} = \text{Liquid Level (in feet)} \times (\text{Specific Gravity} \times 0.433)$$

Example:

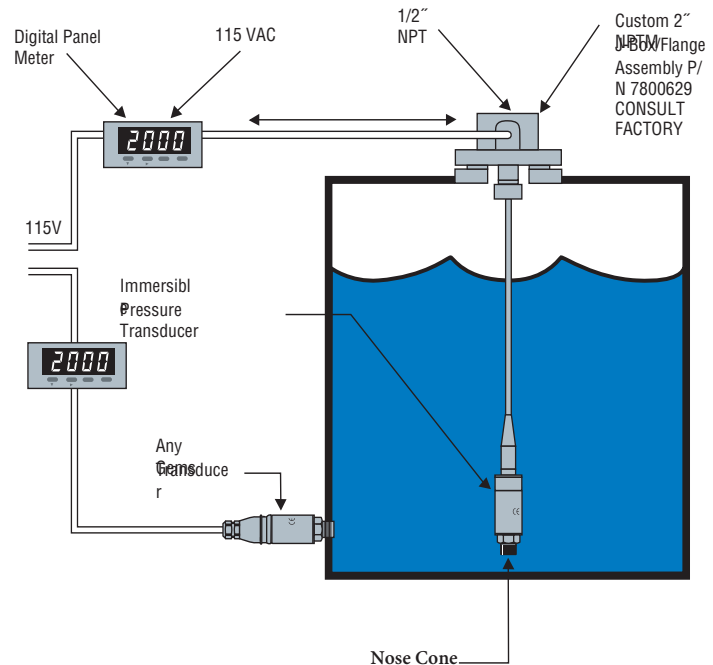
Media is Water specific gravity = 1.0 Level in feet 30'

Pressure in PSI = Liquid Level (in feet) x (Specific Gravity x 0.433)

PSI = 30 x (1.0 x 0.433)

Pressure in PSI = 12.99 PSI

Typically a 15 PSI transducer would be used in this application.



TSC can assist in all level application and help in building you level control system using the technologies below.

- Level sensors
- Cable glands
- Power supplies
- Controllers / PLC's
- Displays
- Signal Conditioning
- Wireless Routers
- Lighting
- VFD's

