The Series TPG Temperature & Pressure Gage eliminates the need for two separate temperature and pressure gages. Unique internal valve depressor built into the well allows the gage's sensing probe to be easily removed from the thermowell without causing leakage, eliminating downtime. Installation time is further reduced via one connection to pipe instead of two.

Series TPG is packaged in an ABS plastic case. Models are available with a back mount, direct bottom mount, 45° bottom mount or panel or surface mount with capillary. Side by side pressure and temperature scales allow quick and easy readings.

Series TPG has a temperature accuracy of 2% and a pressure accuracy of 1.6% of full scale. Intended for industrial or HVAC applications, specifically measuring water in air conditioners and heat ventilation systems.

**SPECIFICATIONS**

**Service:** Clean water and compatible gases.

**Wetted Materials:** Brass, 304 SS.

**Housing Materials:** ABS Plastic.

**Accuracy:** Pressure ±1.6% FS; Temperature ±2.0% FS.

**Pressure Limits:** 150% FS. Normal operation should be between 10% and 90% of full scale.

**Temperature Limits:** Ambient: -4 to 140°F (-20 to 60°C); Process: Within range.

**Humidity Limit:** Ambient not to exceed 80%.

**Size:** TPG-BA/TPG-BO: 4.33” (110 mm) casing, 3.54” (90 mm) dial; TPG-45: 4.41” (112 mm) casing, 3.66” (93 mm) dial.

**Process Connections:** 1/2” male NPT.

**Mounting Orientation:** Dial face in vertical position.

**Weight:** 15.2 oz (431 g).
INSTALLATION

Location
Select a location free from excessive vibration and where the ambient temperature ranges from -4 to 140°F (-20 to 60°C), and humidity will not exceed 80%. Excessive vibration may cause damage. Be sure to expose unit only to levels of pressure and temperature within specified ranges. Ensure that exposed pressure to unit will be typically within 2/3 of full scale. Do not place gage near anything that will cause it to deviate from normal functions and cause false readings.

Position
Install with dial face in vertical position. Adjust angle before installing.

Note: Unit is intended for use only within described temperature and pressure ranges and connection standard. Before installation, check to see that all necessary parts are present. Do not install if O-ring and washer are missing from sensing probe. Do not use machine power on the unit. Do not subject unit to sudden pressure or pressure outside designated limits.

Installation Procedure
Make sure main process valve is closed and internal process pressure and temperature have been stabilized before installing. Ensure that all threads are properly sealed with plumbers tape or other sealant before moving on to next step. Insert thermowell into pipe, making sure to screw it in all the way. Insert gage’s sensing probe into thermowell, also making sure the seal is tight.

Note: It is normal to have fluid from the piping left inside the thermowell when unit is removed from thermowell. When removing unit, close main process valve to ensure stable internal process pressure and temperature and wait for any liquid to cool down to a safe temperature.

Note Regarding Capillary Models Only: Take care when unwinding coil from packaging so as not to kink it. The capillary is easily damaged by vibration. Any excess capillary slack should be wound to a coil of over 4 inches and bound securely near gage. The minimum radius for coil is 2 inches. Do not wind capillary any tighter as it will kink. Do not place capillary near anything that will cause it to deviate from normal functions and cause false readings.

MAINTENANCE

There is a wire mesh located at the tip of the thermowell, which functions as a filter. Do not tamper with or otherwise alter thermowell. When thermowell is supplied separately, there will be a cap on the inner thread to protect from debris. This cap should be left on until thermowell is to be installed.

Note: We generally recommend that gages needing repair be returned to the factory. Parts used in various sub-assemblies vary from one range of gages to another, and use of incorrect components may cause improper operation. After receipt and inspection, we will be happy to quote repair costs before proceeding. Consult factory for assistance on unusual applications or conditions.

The Series TPG Temperature and Pressure Gage is not field serviceable and should be returned if repair is needed (field repair should not be attempted and may void warranty). Be sure to include a brief description of the problem plus any relevant application notes. Contact customer service to receive a return goods authorization number before shipping.