

Tank Gauging Innovation

EPG has recently developed the WNSA 1000, an innovative, easy-to-use tank gauging system (Figure 1) that simultaneously measures and displays liquid level (feet) and volume (gallons) in horizontal and vertical cylindrical tanks of up to 30,000¹ gallons. The system combines unparalleled accuracy with convenient versatility. The WNSA 1000 Tank Gauging System includes the EPG LevelMaster™ Submersible Level Sensor and a unique tank level monitor, which can be easily set up to handle a variety of tank geometries.

The EPG LevelMaster Submersible Level Sensor was originally designed to specifically work with the EPG SurePump™ to accurately measure liquid levels (pressure) and transmit signal to the meter. For years, this submersible pressure transducer has proven to be dependable and highly accurate. It can be used in side slope riser, well, sump, reservoir, settling pond and tank applications.

The EPG submersible transducer is constructed with a silicone pressure cell (many ranges are available) mounted in a rugged 316 stainless steel housing. The sensor is fully submersible in any liquid compatible with 316 stainless steel and the chemical resistant polyurethane jacketed cable (optional Tefzel² cable is available). Unlike transducers whose signals may be distorted by outside interference, the EPG sensor gives outstanding noise immunity, utilizing a 4-20 mA output to maximize signal accuracy and strength. In addition, the sensor features built-in temperature compensation as well as precise calibration, with accuracy of $\pm 1.0\%$, and a combined repeatability and hysteresis error of $\pm .125\%$.

There are three installation options available (Figure 2) for the EPG LevelMaster Sensor:

- Suspended by its lead into the tank (A)
- Flange or thread mounted (B)

There are many systems that monitor and display only liquid level. What makes the WNSA 1000 so unique is its capability to be programmed to calculate liquid volume for virtually any tank geometry and its ability to monitor more than one tank simultaneously. Further, two serial ports are available to facilitate hardwire or wireless communication and/or integration into a larger, plant-wide control system via modbus protocol. We also can provide customized programming and configuration so that it will fully meet your specific application. All this adds up to tank gauging innovation that is dependable, accurate and conveniently sourced through one provider.

Do you want consistent, accurate liquid volume and level measurements in either one or all your cylindrical tanks? Do you need to integrate tank monitoring into a larger control system and be able to monitor it from one location?

The answer to these questions may be the WNSA 1000 and EPG control systems; one of the most innovative and cost effective monitoring and control solutions in the industry.

¹ Models for larger tank volumes are available

² Used for highly corrosive environments



Figure 1

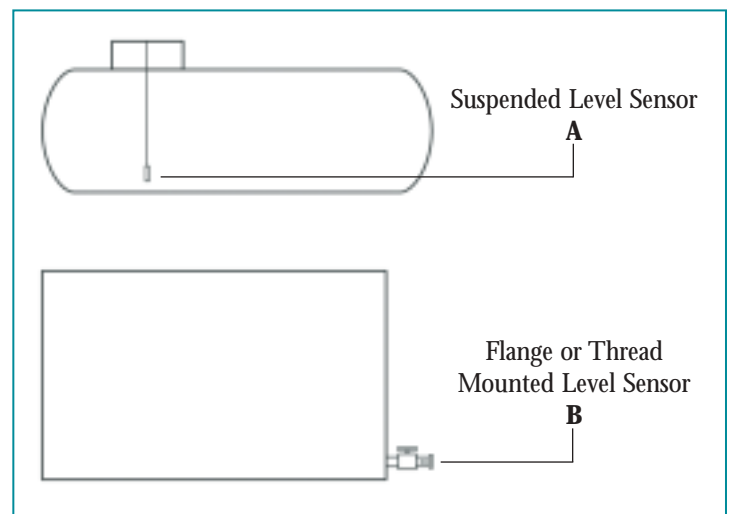


Figure 2