PERCEPTIVE
SENSOR TECHNOLOGIES

INDUSTRY CHALLENGES:

Upgrading tank instrumentation can be expensive and can entail up to 2 weeks or more of tank downtime. New API 2350 standards regarding DOT tanks will require some midstream facilities to have increased visibility or risk a tank category downgrade resulting in less capacity. Changes in ownership and/or new inspection timelines can be detrimental circumstances that can lower optimization levels unless technology upgrades are employed. Results of the risk assessments required by 2350 5th Ed. can be mitigated by installing the

PST Model EC 1000. ALARM ID™

perceptivesensors.com/alarm

HIGH/HIGH

LOW/LOW

CONSIDERATIONS: The full cost and installation of Alarm-ID™ can be 1/4 of the cost of traditional instrumentation. The alarm can be installed in under one hour from the exterior of a tank from the staircase because of the wireless power/communication options. This allows for easy installation to address regulatory changes or for replacing legacy instruments that are non-functional so as assure operational continuity of tank assets. No welding and no personnel exposure to hazardous vapors during installation. EC 1000's design can ensure true "Operational Independence" from its standalone power source (battery) and wireless communications (WiFi) that compliments and enhances interior instrumentation.

ADDITIONAL BENEFITS: Potentially can increase a typical tank capacity by 4% (based on flow rate) and can generate an ROI/breakeven of around 10 months when considering tank leasing facilities. Additionally, the risk profile can be reduced for all tank categories. This same device can be used to monitor Low/Low – "Off Float" situations where operators can monitor interior seals and roofs and if they are below safe working limits.

CMaaS (Continuous Monitoring as a Service) can be offered where leasing by the month can help operators purchase more coverage with the same budget and potentially insure more tanks.

OWNER / OPERATOR PRIORITIES LIST	CAT 0	CAT 1	CAT II TO CAT III	
REDUCES RISK	✓	✓	✓	STATISTICALLY LOWERS OVERFILL PROBABILITY
SAVES MONEY	✓	✓	✓	COST ADVANTAGES OVER INTRUSIVE INSTRUMENTS
MAKES MONEY	✓	✓	✓	ALLOW FOR INCREASED CAPACITY - PER FLOW RATE