

Continuous Fluid Level Monitoring System



TESCO's **Reactive Air Level Monitor** is a trapped-air fluid level monitoring instrument designed for application in most liquids and slurries. The Reactive Air Level Monitor has been used in wastewater, storm water, and fresh water systems for over 20 years. This technology offers a simple solution for measuring fluid levels, with extreme reliability and accuracy, in liquids containing up to 30% solids.

Reactive Air consists of a compression bell connected by a sensing tube to a remotely mounted pressure transmitter. A change in fluid level outside the bell will compress the trapped air column proportional to the change in fluid level.

Small changes in level within the bell, correspond with a significant change in pressure at the pressure transmitter providing superior accuracy. An integral

compressor is used to purge the compression bell. During the purge cycle, the level seen by the pressure transmitter is frozen using onboard electronics. A solenoid valve automatically isolates the pressure transmitter from the sensing line during the purge cycle, eliminating undue shock to the pressure sensing element.

TESCO's Reactive Air Level Monitor is immune to solids build-up and inaccuracies resulting from foaming or fluid separation. Since no electronics or electrical conductors are used between the bell and the pressure transmitter, high noise immunity is realized. It can be surface-mounted up to 1000 feet from its compression bell.

Call us and see for yourself how Tesco Controls can make a difference on your next project.

Applications

- » High suspended solids level measurement, including raw sewage (up to 30% solids)
- » Wet well level measurement
- » Open tank or basin level measurement

Features

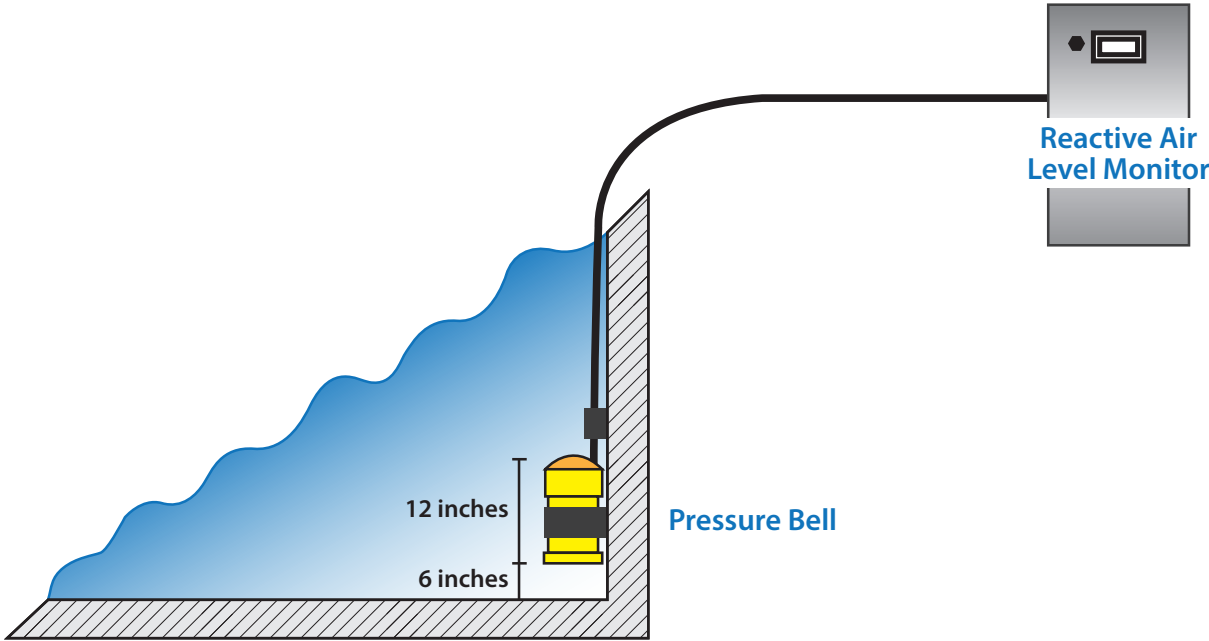
- » Choose from 120VAC or 24VDC
- » High-strength polymer bell resists corrosion and material build-up
- » Not susceptible to inaccuracies due to foaming or solids build-up
- » Self-cleaning utilizing manual or auto purge
- » High noise immunity
- » Operation can continue without power for compressor, for up to 30 days
- » Wide variety of pressure ranges available
- » Compression bell can be mounted up to 1000 feet from pressure transmitter
- » Output hold during purge, with adjustable duration

Options

- » Surface mounted cabinet
- » Digital display provides visual indication of measured level
- » Manual purge switch
- » Optional power configuration

Benefits

- » Simplified operation
- » Increased system reliability
- » Cost-effective
- » Simple installation
- » No maintenance



Reactive Air®

SPECIFICATIONS

Standard Level Range	0 to 35 feet, optional ranges available
Power Configurations:	
Primary Incoming Power Operating Voltage	120 VAC
Optional Power Configuration	24VDC external loop-power (for DC battery backup of transducer /4-20mA signal only)
Temperature Range	0 to 200 ° F
Accuracy	+/-0.125 inches
Repeatability	0.2%
Interface	Two wire analog current loop 4-20mA

Custom options are available. Contact Tesco Controls, Inc. for more information:

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