



VPAC™ II IS | Intrinsically Safe Through-Valve Loss Control Instrument



MISTRAS Group has taken the VPAC™ through valve loss control instrument to the next level. The VPAC™ II IS significantly simplifies asset maintenance and increases operation safety.

Created for use in hazardous environments such as oil, gas and petrochemical plants, power generating plants and offshore platforms, the VPAC™ II IS is a dedicated intrinsically safe acoustic leak instrument for through valve loss control. Using the same technology and sensors as our successful VPAC™, the VPAC™ II IS, for example, can determine the loss of hydrocarbons to flare in hazardous areas and save millions of dollars for the plants.

Starting with basic process information and type of valve, along with the measured Average Signal Level (ASL) from the instrument, VPAC™ II IS uses a proprietary algorithm to identify through-valve gas losses and estimates leak rate.

The user interface is simple and intuitive. The instrument is powered by a high capacity rechargeable battery lasting several weeks with typical use. The battery replacement on this handheld power device is quick and easy, and the unit retains all settings even when powered off, so downtime is minimal.

CAPABILITIES

The VPAC™ II IS contains all the features you need to determine if valves are leaking and an estimation of the leak rate. The features of the VPAC™ II IS include:

- Leak rate estimations right on the unit itself, based on stored valve information.
- Low noise electronics to achieve the required dynamic range for valve monitoring.
- Storing a reading, as well as an upstream and downstream readings.
- Measurement mode displays the real-time reading on current valve
- Loading a testing route complete with valve names and physical properties from VPACwin™.
- The ID mode enables the user to select an active valve and view its parameters.
- Transferring all stored data to VPACwin™ via the Bluetooth interface
- Meets the requirements of EPA 40 CFR 98 mandatory tracking and reporting of greenhouse gases

SAVINGS IN MILLIONS

Statistical experience has shown that in oil and gas plants 5-10% of valves leak, but 1% of valves are responsible for 70% of total loss. Finding these valves and taking remedial action reduces annual losses by millions of dollars.

On plants with flare gas recovery systems the use of the system is even more important to avoid burning saleable product and hydrogen as fuel gas. Regular checking of product and hydrogen valves avoids this downgrading.

SAVINGS EXAMPLE

VOC losses AU\$9m (28,684 tonnes) [~US\$12m], cut to half (14,342 tonnes) in two years, cut to 4821 tonnes in three years.

CERTIFICATIONS

CE Ex II 2(1) G
FM Class I Div 1 Group A, B, C, D, T3
CFM Class I Div 1 Group A, B, C, D, T3;
Ex ia IIC T3 Gb



