Save Gas | Save Money | Increase the Bottom Line

Benchmark Instrumentation and Analytical Services is happy to offer this exclusive leak detection product to the Canadian marketplace.

Scan the QR code below to learn more.



Packing Leak Detector.

M-Squared Products & Services



Save Gas Save Money Increase the Bottom Line



1-866-416-0516 Benchmarkinc.ca

Reduce Emissions & Reduce Losses

The EPA¹ estimates that packing leaks in over 200,000 cylinders² release 65 billion cubic feet of natural gas annually to the atmosphere. Compressor packing leaks result in \$91 billion in methane energy loss.

Environmental Protection Agency¹ 50,000 co

50,000 compressors x 4 cylinders per compressor²

Minimize Leak Impacts

The Packing Leak Detector (PLD) helps reduce leak rates to near zero. Methane leaks from compressor packing glands are common and result in lost revenue and can lead to environmental penalties. The PLD provides mechanical or digital notification of a leak allowing for early intervention and remedy.

PLDs Determine:

- Over-lubrication
- Packing gland health
- Improper packing material
- Incorrect packing installation
- Piston rod hardness/smoothness

Benefits

- Low maintenance
- Simple installation
- 24 X 7 local monitoring
- Multiple service compressors usability
- Engineered for different gases & varying rates
- Establish ZERO leak baseline for your equipment
- Costs less than 0.25% of the annual lost methane revenue
- Monitor panels remotely access temperature/pressure data

Packing Leak Detection

As packing rings wear, gas migrates along piston rods to packing case vent cups. Gas flows through vent lines to connected PLDs. As leaking pressure achieves specified thresholds, PLDs provide mechanical visual leak indications and send electronic signals via transmitters to PLD Human Machine Interface (HMI) monitor panels.



Enhancements

Transmitter-Equipped PLDs

- Offers remote monitoring capability & includes temperature and pressure data via Modbus
- **PLD Human Machine Interface**
 - Class 1 Division 2-rated

Gas Reclamation

Combine PLD with vapor/vent reclamation systems

Recover, pressurize, redirect vented gases for gathering, pipeline or storage. Redirected emissions can be directed to flares, vents, or, at predetermined volume thresholds, sent to holding vessels

- Drive engine fuel
- Production & process system
- Blanket gas systems (stock tanks, corrosion inhibitor)

Standard Design

Mechanical Pin PLDs

- When leak rates exceed thresholds, visual indicators (pins) extend
- Pins are calibrated to indicate gas leak rate/volume

