

LRM800 Leak Rate Monitor

The LRM800 Leak Rate Monitor is designed to meet the needs of nuclear power plant technicians for a portable device to perform leak rate testing of penetrations. Using a source of pressurized air, one side of the penetration is brought to test pressure. The air mass flow rate to maintain test pressure is measured.

The LRM800 incorporates Teledyne Hastings HFM-200 and/or HFM-201 mass flowmeters. From one to four flowmeters may be used to cover the required range. Full scale ranges of 10 SCCM up to 100,000 SCCM are available. Typically, a separate flowmeter is used for each order of magnitude.

Published accuracy of the HFM-200 and HFM-201 is 1% of full scale. However, the LRM800 implements fifth-order polynomial curve fitting to give improved accuracy.



Features:

- 10"W x 16"L x 11.5"H aluminum case, with removable hinged lid and carrying handle
- 90 to 264 VAC, 47 to 63 Hz power input
- Internal sealed lead-acid battery with charger, for up to 11 hours of operation on a charge
- 2 line x 16 character alphanumeric LED display of range and flow
- Solenoid valve range selection
- Backflow water trap on outlet to prevent damage to LRM if there is water in the penetration
- 3/8" Swagelok QC6 quick connect fittings for instrument air and penetration flow lines
- External calibration fitting for supply side calibration
- RS232 serial I/O

The LRM800 is not stocked, but is configured and assembled to meet the customer's specifications. Custom configurations, such as higher flow rates, can be provided.

Pricing: (effective 7/26/2008)

Base Price for standard configuration, not including flow meters.....	\$7,250
Add for each low range* HFM-200 flow meter.....	\$1,025
Add for each high range* HFM-201 flow meter.....	\$1,400

*HFM-200 is used for ranges of up to 25,000 SCCM. HFM-201 is used for higher ranges.