

Tekran JITRbug Mercury Test Gas Generator

Rev. 032422



Handheld Mercury Monitor Integrity Test Rig Independent Instrument Performance Assessment

Due to their small size, industrial hygiene hand-held mercury monitors do not include an internal calibration source or alternative accuracy assessment capability. Typically, workers and industrial hygiene experts can only assume the monitor is generating accurate results on a day-to-day basis. Routine calibration at the factory, or done in-house using complicated laboratory procedures is not practical or efficient. With the introduction of the Tekran JITRbug, accuracy and performance of hand-held air mercury monitors can be accomplished in 5-minutes just prior to daily use, or before entering a potentially hazardous air space. Supervisors and industrial hygiene managers are now able to routinely document accuracy and performance, to make certain workers are fully protected from toxic levels of mercury in air. The JIRbug is a simple-to-operate continuous source of a precisely controlled mercury test gas of known concentration, traceable to a NIST standard. The mercury source flow and dilution air flow are precisely controlled by dual MFC's, enabling the system to quickly switch between output Hg concentrations of 30 $\mu\text{g}/\text{m}^3$, 50 $\mu\text{g}/\text{m}^3$, and 100 $\mu\text{g}/\text{m}^3$ (others optional).



Key Features:

- Turn-key system with quick setup time and NIST traceable Hg gas source
- Simple operation with touch-screen controller – advanced features password protected
- Rapid switching between output concentrations
- Dual front panel test ports for Hg test gas and scrubber exhaust
- Easily adjustable to user-specified STP reporting conditions
- Separate rotameter to assess hand-held instrument flow accuracy
- Optional shipping and carrying case for portability

Specifications:

Output Concentration:	30-50-100 ug/m ³ standard, others available
Flow Output:	1.25 L/min standard, 2 L/min maximum
Warm Up -Source:	30-60 Minutes
Warm Up – Air Dryer	60 minutes, 2 hours recommended

Dimensions:

Width:	19"
Height:	17.25"
Depth:	17"