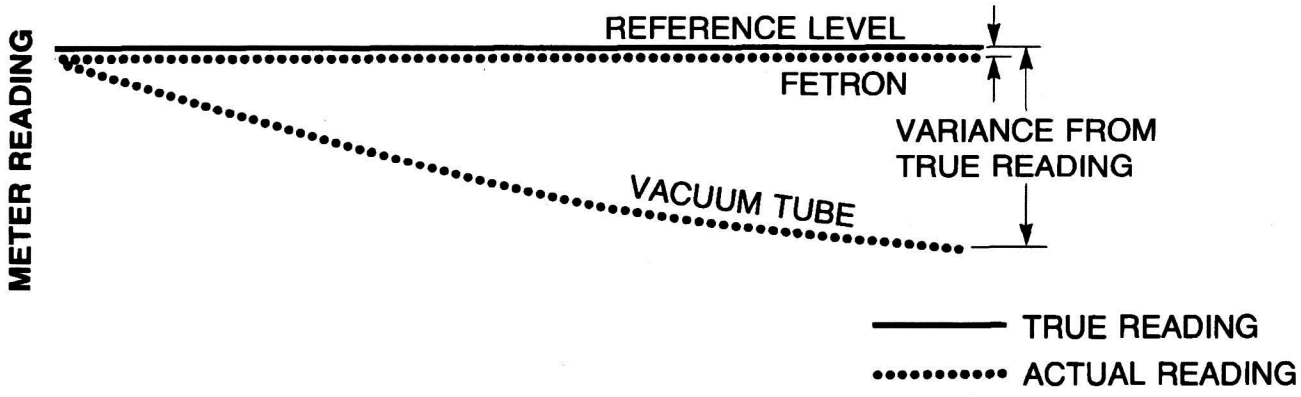
Solid-State Stability and Reliability

By retrofitting with FETRON conversion kits from Teledyne, you can extend the useful life of a vacuum-tube instrument many years and stretch out calibration intervals beyond 12 months.

Improved Accuracy. FETRONs never drift, but vacuum tubes begin drifting immediately causing greater errors between calibrations. With FETRONs, periodic calibration is required only as a check for malfunctions.



The graph shows the difference in stability between vacuum tubes and FETRONs, as measured on a VTVM before and after conversion. Since drift is eliminated, the normal three-month recalibration cycle can be replaced by a cycle of 12 months or longer, with occasional bench checks to make sure the instrument is functioning properly.

Being solid-state, FETRONs are not subject to tube degradation modes, such as gassiness, microphonics and filament deterioration, that upset measurement accuracy. What's more, FETRONs are immune to shock and vibration levels that could damage tubes, and they have many, many times the operating lifetime of tubes. They also improve the overall reliability of the instrument because they run cool, without heater power.