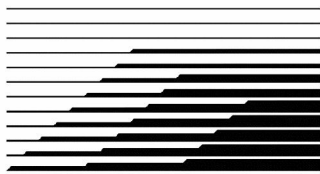


M E S A



L A B S

June 3, 2005

EXPLANATION OF DataTrace[®] CALIBRATION REPORT

This document is provided as a guide for our customers to provide additional explanation of the REPORT OF CALIBRATION included by Mesa Laboratories with all DataTrace[®] Tracers. Mesa Laboratories certifies that the calibration referenced on the Report of Calibration is traceable to relevant International Standards. All calibration standards are regularly submitted to independent metrology laboratories for calibration accuracy verification, and the DataTrace[®] calibration procedures incorporate full redundancy to validate Tracer accuracy with a high degree of assurance.

The **REPORT OF CALIBRATION** (and the **AS RECEIVED CERTIFICATE**) conforms to FDA QSR, Section 820.72, and generally conform to ISO Guide-25 and ANSI Z-540. Dual parameter Tracers (e.g., Humidity) are provided with two REPORT OF CALIBRATION sheets, one for each parameter.

There are two types of calibration related reports generated by Mesa Laboratories:

- **REPORT OF CALIBRATION.** This is the most common calibration related report and is generated as the final process step during Tracer manufacturing or service. It provides the calibration certification details of the identified parameter for a specific Tracer.
- **AS RECEIVED CERTIFICATE.** This report is generated **ONLY** upon customer request and there is an additional charge for the service. The Tracer must be functional upon receipt at the factory and remain functional throughout the complete As Received Certification process.

These reports have a similar format with many common entries. The following detail will describe the specific entries and identify any areas of difference.

DETAIL:

- REPORT #:** This entry is a unique, sequential number used to identify this particular report. No other report will have this number.
- SUBMITTED BY:** This entry indicates the Tracer owner of record.
- SERIAL NUMBER:** The unique number that defines the subject Tracer being calibrated. The Serial Number is etched on the case and also stored in the Tracer's memory.
- PART NUMBER:** The Mesa Laboratories part number for the subject Tracer.

MODEL: The Mesa Laboratories model number for the subject Tracer.

RANGE: The standard calibration range for the subject Tracer.

INSTRUMENT TYPE: The model number and description of the subject Tracer.

RESULTS OF TEST: The Results of Test lists comparison values at known points between the Reference Instrument (Applied) and the subject Tracer (Reading of Instrument). Normally, three (3) values are listed in each column where one value is compared at each of the range extremes and one value is compared near mid-range.

REFERENCE

INST NUMBER: The Mesa internal control number of the reference standard used by Mesa Laboratories to calibrate this Tracer.

REFERENCE INST

CAL DUE: This is the calibration due date for the reference instrument used by Mesa to calibrate or certify the subject Tracer. **This is not the calibration due date of the subject Tracer.**

The text below the Reference Inst Number and Reference Inst Cal Due are explanations of the standard calibration performed. These explanations will differ depending on the report type, the type of Tracer (Instrument), and the parameter being calibrated/certified.

The reports are signed by the Calibration Technician that performed the certification and the date that the certification was completed. New Build Tracers are also signed and dated by the Mesa Laboratories Quality Control Technician who performs Final Acceptance testing.

Mesa Laboratories does not indicate a required Calibration Due Date for DataTrace[®] Tracers. As a general guideline, Mesa Laboratories recommends an annual calibration certification. Specific standard calibration due dates for reference devices (e.g., DataTrace[®] Tracers) are usually defined by the users Metrology Department and/or process Standard Operating Procedures.