

VALIDATION

- Chambers: Refrigerators, Incubators, Stability, Freezers, Cryo-Freezers
- Sterilizers, SIP, Autoclaves, Depyrogenation ovens
- Warehouses and Rooms
- Lyophilizers, Bioreactors, Centrifuges
- Ovens, Vessels, Tanks, Fermentors
- Shipper Containers
- DataTrace & GE Kaye Validation Systems
- Validation Training
 - DataTrace & Validator 2000 operational training
 - Specific qualification training for thermal mapping



CALIBRATION



Equipment Calibration

- Validation dataloggers (V2000, DigiStrip KL, & Portable Validators)
- Temperature standards (IRTD-400, PRTs, SPRTs, TCs, Thermistors)
- Temperature Readouts (All Hart 1500s, ISOTECH, Azonix, etc.)
- Temperature reference baths (LTR, HTR, CTR, etc.)
- RH sensors, CO₂, pressure, etc.

On-Site Calibration

- Validation dataloggers, chart recorders, controllers, indicators
- Chambers, centrifuges, balances, scales, gauges
- Temperature, RH, pressure, CO₂, light, time, rotation, voltage, current, resistance, mass



EQUIPMENT RENTALS

Validation Dataloggers

- DataTrace Wireless **Real-Time** Validation System
- GE Kaye Validator 2000
- DigiStrip KL & Portable Validators

Temperature Standards

- GE Kaye IRTD-400
- Hart handheld thermometer 1522/1523/1524 w/PRT

Temperature Reference Baths

- GE Kaye LTR, HTR, CTR
- Hart handheld drywell baths, portable furnaces

Validation Laptops & Software

Particle Counters

Thermocouple Feedthroughs

Wireless Temperature and Humidity Transmitters

- DataTrace, GE ValProbes, Libero



BIOPHARMA STORAGE FACILITY

- LN₂ cryogenic temperature controlled storage
- -20°C Walk-in, 5°C Walk-in
- Reach in chambers at -80°C, -25°C and 5°C
- Walk-in and/or reach-in ICH stability at 25°C/60%RH, 30°C/65%RH, 40°C/75%RH, and Photostability
- Ambient & other special ICH conditions available



THERMOCOUPLE WIRE

Ultra Premium Select Grade, 7 Strand

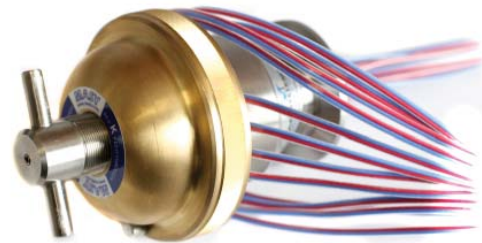
Wire Rolls: Up to 10,000ft.

- FEP 22awg, FEP 28awg, Kapton® 22awg

Custom thermocouples: Made to order

- Harnessed, tipped, labeled

Thermocouple Feedthroughs



DATALOGGERS

DataTrace Wireless Real-Time Validation Dataloggers

- Real-Time Temperature & Humidity
- FDA 21 CFR Part 11 Compliant
- Real-Time Sensor Ranges: -80°C to +140°C, 0%RH to 100%RH
- Logging Sensor Ranges: -80°C to +400°C, 0%RH to 100%RH
- Pressure: 0 PSIA (0 BAR) to 150 PSIA (10 BAR)



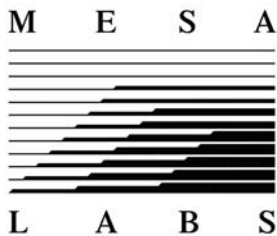
TRANSPORT DATALOGGERS

Libero Transport Dataloggers

- Internal sensor: -35°C to 70°C
- External sensor: -80°C to 85°C
- No software required
- Instant reporting (PDF format)



DISTRIBUTOR OF:



DataTrace Wireless Real-Time Validation Dataloggers



Sanitary Gaskets and Clamps for the BioPharma Industry



CyberLocks - Electronic Locks with audit trail

FLUKE

Hart Scientific

Temperature Calibration Measurement Equipment

Thermometers, metrology baths