<table>
<thead>
<tr>
<th>Parameter/Description</th>
<th>Range</th>
<th>Accuracy or Specification</th>
<th>Analog</th>
<th>4-20 mA</th>
<th>TC</th>
<th>D/C*</th>
<th>Notes/Application(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature - RTD</td>
<td>-197˚C to +140˚C</td>
<td>±0.5˚C</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td>LN2 to Ovens/Heat Blocks</td>
</tr>
<tr>
<td>Temperature - Thermocouple</td>
<td>Type J -150˚C to +1,200˚C*** Type K -150˚C to +1,270˚C*** Type T -150˚C to +400˚C*** Type R +100˚C to +1,768˚C*** Type S +100˚C to +1,768˚C***</td>
<td>±2˚C</td>
<td>±2.5˚C</td>
<td>±1.5˚C</td>
<td>±2˚C</td>
<td>±2˚C</td>
<td>VPC Only, LN2 to High-Temp Blast Furnaces</td>
</tr>
<tr>
<td>Humidity</td>
<td>0% to 100%</td>
<td>±1.5%, 0% ≤ %RH ≤ 90%; ±2.5%, %RH &gt; 90%</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DC Voltage</td>
<td>0-5 V, 0-10 V, 0-20 V, 0-30 V</td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dry Contact</td>
<td>Close / Open</td>
<td>N/A</td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Third Party Sensors</td>
<td></td>
<td></td>
<td>✓ ✓ ✓ ✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carbon Dioxide (CO₂)</td>
<td>0% to 20%</td>
<td>Accuracy ± 0.5% CO₂, Uncertainty ± 0.25%</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oxygen (O₂)</td>
<td>0% to 25%</td>
<td>±1% FS, 0.25% O₂</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Differential Pressure</td>
<td>-0.25 to +0.25 in H₂O</td>
<td>±0.002 in H₂O</td>
<td>✓</td>
<td></td>
<td></td>
<td>±0.8% FS Accuracy</td>
<td></td>
</tr>
<tr>
<td>Particle Count</td>
<td>0.5 - 25 µm particle size</td>
<td>Counting Efficiency: 50% at 0.5 µm; 100% for &gt; 0.75 µm</td>
<td>✓</td>
<td></td>
<td></td>
<td>Particle size detection capability dependent on manufacturer and model number</td>
<td></td>
</tr>
<tr>
<td>Horizontal Motion</td>
<td>Stopped / In Motion</td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Leak Detection</td>
<td>No / Yes</td>
<td>Dependent on fluid type</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td>Water detection requires ions</td>
</tr>
<tr>
<td>900 MHz VPx - 3.6 Lithium Battery Life</td>
<td>3.6 V</td>
<td>1 year</td>
<td></td>
<td></td>
<td></td>
<td>2 Batteries per VPx transmitter</td>
<td></td>
</tr>
<tr>
<td>Wi-Fi VPx - 3.6 Lithium Battery Life</td>
<td>3.6 V</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2 weeks if line power lost</td>
<td></td>
</tr>
<tr>
<td>Probe Calibration</td>
<td>ISO 17025, NIST</td>
<td>ilac-MRA ISO 17025**</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Annual Calibration Recommended</td>
</tr>
</tbody>
</table>

*D/C - Dry Contact  TC - Thermocouple  **Refer to Mesa Labs ISO 17025 Certificate of Accreditation  ***Max Operating range of probes. Non Type T furnished by customer.

**Industries**
Hospital/Medical Center • Clinical Laboratory/Blood Bank • Pharmacy/Clean Room • Pharmaceutical/ Food and Nutrition • Organ Donor Center • Warehouse/Distribution Center • GxP Compliant Manufacturing • IVF • Biotech/Life Sciences

**Applications**
Continuous Monitoring • Safeguarding Assets • Compliance • Quality Assurance • Real-time Alerts • Mapping/Validation

www.mesalabs.com
monitoringsales@mesalabs.com
800.451.1707 or 303.565.2724

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Rev. 18JAN2018
**ViewPoint Enterprise Continuous Monitoring**

**ViewPoint Software**
- User-friendly, intuitive, and customizable
- Cloud, VM or physical server hosted
- Web-browser User Interface (UI)
- Tile, List, and Map views
- Multi-point calibration
- Modbus and HL7 interfaces
- Multilanguage Editions ~2018
- Feature-rich and customizable
- BACnet Gateway
- Mobile App

**Hardwired Solution**
- Real-time data acquisition
- Modular Input/Output Card Types
- Input Card Types: Analog, RTD, and Thermocouple
- Dry Contact/Relay Output Card
- 14 Days of Data Logged (at 15 min logging rate)

**Alarm Notifications**
- Email, text message, interactive phone call notifications
- Configurable alarm escalations
- Shift-specific/Holiday schedules
- Local (Audible/Visual) Alarm Lamp
- Optional local mute/reset Control Box

**Comprehensive & Fully Compliant CM Solution**
- Wired and Wireless Options
- -197°C to +1,768°C Temp Range
- ±0.5°C Accuracy RTD
- Temp, Humidity, Dry Contact, Door Open/Closed, 4-20 mA, DC Voltage.
- Third-party sensors: CO₂, O₂, Differential Pressure, Particle Count, Air Flow, Motion, Leak Detection.
- 21 CFR Part 11 Compliant
- Audit Log - supports user annotations with electronic signature
- ilac-MRA ISO 17025 Accredited Calibration
- In-field ISO 17025 Calibration Service
- GxP compliant
- Compliant with Joint Commission, CAP, USP 797, AABB, CLIA, HACCP, VFC and other agencies

**VPx Transmitter - Up Close**
- Vaccines for Children (VFC) Compliant
- Displays current readings
- 2 analog and 1 digital input
- Local Audible/Visual Alert
- Li battery or line powered options
- Local mute and clear buttons

**VPx Wireless Solution**
- Modular Access Point (AP) Architecture
- Highly Scalable
- Local Data Storage Capacity of 4K readings per input channel
- High Uptime/Robust Reliability
- LCD and Non-LCD Versions
- Wi-Fi & 900 MHz Editions
- 868 MHz (EU)/434 MHz (Asia) Editions available 2018/19
- Compatible with SpectraLink and Mobile Access
- Signal travels ~100 meters or more unobstructed
- Self-healing network (automatic recovery and backfilled data)

**Mesa is an ISO 17025 Certified Calibration Laboratory**

CMVP-SY-1010

VPx: Wireless Solution