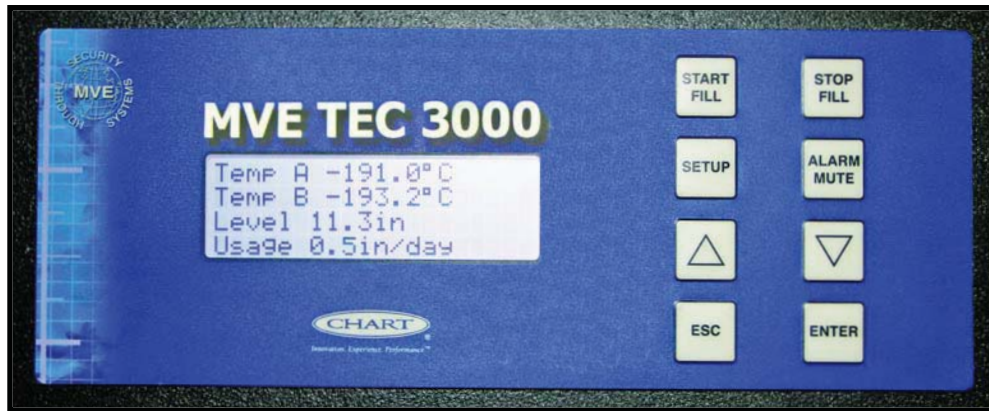


TEC 3000



The TEC 3000 employs a variety of advanced features that enable the controller to monitor and control the environment inside a freezer with a high level of precision.

Features/Options:

- Liquid Nitrogen Level Measurement
- Automatic Liquid Nitrogen Level Control
- Two Channel Temperature Measurement
- Multiple-use Adjustable Alarms
- Adjustable Security / Password System
- One Fill All Capability (Sequential or Simultaneous)
- Timed Filling
- Battery Backup (Optional)
- Gas Bypass (Optional)

Technical Specifications:

• Level Measurement

- Sensor Type - Dual Port Pressure Transducer Measurement
- Accuracy +/- .5 in; +/- 13 mm (typical)
- Liquid Usage Feature
- Two Point Calibration Feature

• Level Control

- Range 3–48" (76-122 mm)
- Control Output - (Fill Solenoid Valve)
- 24 VDC, 1.0 amp (max)

• Temperature Measurement

- Two Sensors, Platinum RTD - Two wire element
 - Accuracy +/-2.0°C Full Scale
 - Altitude Compensation For Accuracy
 - Full Range Calibration Feature
 - Probe Heater For High Temp Alarm Testing

• Front Panel Display

- Backlit LCD Readout, 4 row x 20 character
- Level Display - in, mm, %
- Temperature Display - °C, °F, or K

• Standard Alarms

- Alarm Conditions
 - Low Level Alarm
 - High Level Alarm
 - Low Temperature (Probe A & B)
 - High Temperature (Probe A & B)
 - Fill Time Alarm
 - Power Failure (remote only)
 - Lid Open Alarm
 - Usage Warning and Alarm
 - Temperature Calibration Alarm (Probe A & B)

• Optional Alarms

- Bypass Sensor Failure
- Bypass Time
- Bypass Sensor Calibration
- Power Failure (audible, visual and remote alarms)
- Low Battery Voltage

• Alarm Output

- Both Visual and Audible Alarms
- One Global Remote Alarm Relay
- Four Discrete Remote Contacts
 - Temp A High
 - Low Level
 - High Level
 - Low Battery (optional when equipped with battery backup)

• Controller Features

- Communication Interface: Serial Communication RS485/ASCII/MODBUS
- Memory: Stores time and date stamped information on the controller's 30,000 most recent events