

## TV2 Monitor



### Monitor

- Refrigerators
- Freezers
- Isolation Rooms
- Clean Rooms

### Alarms and alerts

- Local audio/visual alarm
- Text
- Email
- Phone Call

### Network Interface

- WiFi
- Wired Ethernet
- BACnet ip
- Free PC software

### Security

- Automatically logs all data
- 21 CFR 11 compliant
- Internal battery backup battery
- Password protected display

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### Data Logging

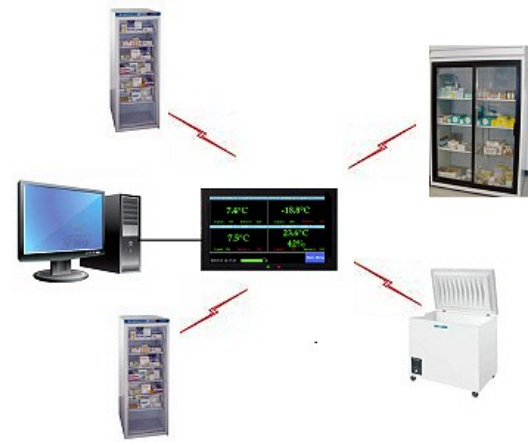
- Logs over 80,000 data points for each sensor
- LCD display shows a logged data chart for each sensor
- New data rolls over older data
- Protected data can not be changed

### Color Coded Touch Screen

- Any unsafe condition turns red
- On screen menu system for quick setup
- Touch any number to see its history



*Flush Mount*



*Download Logged Data to PC*



*View Multiple TV2 on Any PC*



## Technical Specifications:

TV2 QuickCheck Display	
<b>Data Channels</b>	Temperature only - Four Channels Temperature/humidity - Eight Channels (4 temp & 4 RH) Pressure – Four Channels
<b>LCD Color Touch Display</b>	<ol style="list-style-type: none"> <li>1. Updates every 5 seconds</li> <li>2. Back up battery charge icon</li> <li>3. Max/Min for each sensor</li> <li>4. Alarm enabled/disabled</li> <li>5. Sensor battery charge for wireless sensors</li> <li>6. Date and time</li> <li>7. Network connection</li> <li>8. IP address</li> <li>9. Alarm condition for each sensor</li> </ol>
<b>Display Resolution</b>	0.1° on LCD, 0.0001 on PC
<b>Monitoring</b>	Continuous with active display
<b>Max/Min Display</b>	Shows on active display. Resets with Easy Touch.
<b>Sensor Accuracy</b>	Sensor dependent. <i>(See sensor specs below)</i>
<b>Size</b>	8 3/8" x 5" x 1 3/8"
<b>Logging Interval</b>	User select-able: 1/min - 1/24hrs
<b>Temperature Range:</b>	Sensor dependent <i>(see below)</i>
<b>Sensors wired and wireless</b>	
<b>Digital sensors (wired only)</b>	-30°C to 80°C (±0.25°C) w 20' sensor wire
<b>Pressure Sensor</b>	Range ±0.500" Accuracy ±0.002"wc
<b>Thermistor sensor</b>	-20°C to 75°C (±0.3°C), ( ±.2°C option) for glycol bottle
<b>Thermistor/Humidity sensor</b>	-20°C to 75°C (±0.3°C), RH 0% to 100% ±3.0% w 0.5% Repeatability
<b>K Thermocouple sensors</b>	-200°C to 1250°C. Accuracy ~±2.2°C
<b>E Thermocouple sensors</b>	-200°C to 900°C. Accuracy ~±1.7°C
<b>J Thermocouple sensors</b>	-0°C to 750°C. Accuracy ~±2.2°C
<b>T Thermocouple sensors</b>	-250°C to 350°C. Accuracy ~±1.0°C (optional 0.5°C)
Note: All thermistor and thermocouple sensors come with a 3-foot wire ending in a 2 inch stainless steel probe.	
<b>Wireless sensors come with a transmitter (433mhz) 4" x 2" x 1" powered by a 9vdc battery which has approximate life of 1 yr depending on how often data is logged</b>	

<b>Technical Stuff</b>	
<b>Alarms</b>	<ol style="list-style-type: none"> <li>1. Out of range for each sensor (high and low)</li> <li>2. Low display battery</li> <li>3. Low sensor battery (wireless sensors only)</li> <li>4. Power outage</li> <li>5. Sensor out of range. (wireless sensor only)</li> <li>6. Alarm disabled</li> <li>7. Sensor unplugged (Wired sensors Only)</li> </ol>
<b>Alarm Alerts:</b>	<ol style="list-style-type: none"> <li>1. Phone Call (requires auto dialer)</li> <li>2. Email</li> <li>3. SMS</li> <li>4. Local               <ol style="list-style-type: none"> <li>1. Flashing screen</li> <li>2. Beeping audio</li> <li>3. Alarm condition displayed</li> </ol> </li> </ol>
<b>Calibration:</b>	Optional NIST traceable
<b>Characterization:</b>	One - three point calibration table
<b>Data Storage Technique</b>	Non-volatile memory (FRAM)
<b>Non-volatile memory</b>	80000 samples per channel
<b>Power</b>	Via USB cable or screw terminals 5-24vdc
<b>Battery Backup</b>	>72 hr internal rechargeable LI battery
<b>Output to PC</b>	USB cable or LAN
<b>LAN connector</b>	Wired Ethernet (CAT5) or optional WiFi
<b>PC Software</b>	Site license included
<b>Indicators</b>	LCD & LED
<b>Controls</b>	Easy Touch display
<b>User Settings</b>	On board password-protected menu
<b>LCD Pixels</b>	488 horizontal x 270 vertical
<b>LCD Temperatures</b>	Operating 0°C to 50°C, storage -20°C to 68°C
<b>LCD size</b>	2.5" x 4.5"
<b>LED</b>	Green = AC power present. Red = no AC power
<b>Relay</b>	Dry N/O with 2 terminal clamp <30v fused for .5 amp
<b>Mounting</b>	Wall mount – Velcro or Flush mount
<b>Display weight</b>	1 lb