Description:

The TV2 Clean Room Monitor/Alarm is a highly engineered monitor/alarm/logger with a simple user interface. It is the only device which monitors, alarms, logs and charts pressure, temperature and humidity data. It uses remote sensors that are updated every few seconds. In addition to continually displaying current conditions it also logs all of the data, so you have a complete history of clean room conditions.

The TV2 Easy Touch display shows current and maximum/minimum conditions as well as a data history charts for each of its remote sensors. All logged data is encrypted to comply with 21 CFR 11 requirements and can be downloaded to a computer with the free TView PC software.
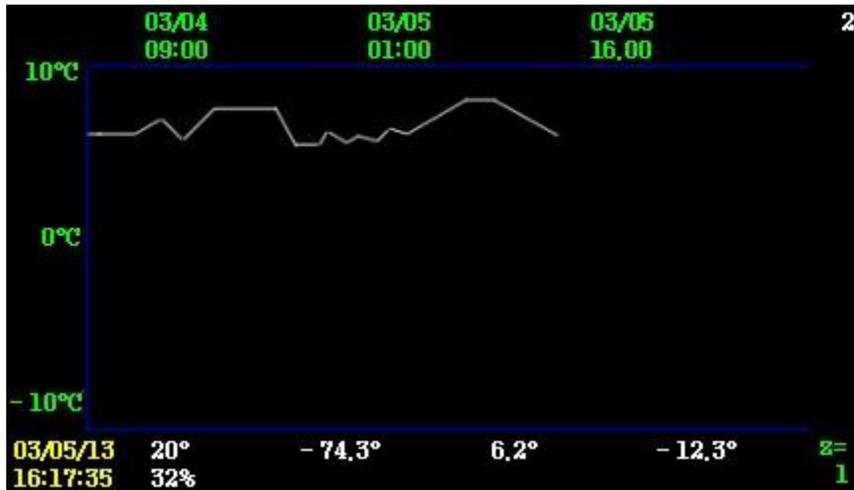

Stored data:

The TV2 stores over 80,000 data points for each sensor, which means that it will store over 2.0 year of data history if you are logging conditions once every 10 minutes

To see the logged data just touch the display. The displayed chart can be scrolled through, backwards and forward. It can be zoomed into or out of to show more or less data.

Temperature chart for temperature sensor

The menu system

A password-protected Easy Touch menu is used so that TV2 can safely be placed in high traffic areas so that each staff member can see it and be part of your quality control process.

The TV2 has a 100-hour battery backup so that it continues to operate during power outages.

The TV2 display:

The LCD is a full color Easy Touch graphic display, controlled by a microprocessor which shows 220 columns of temperature data at all times. This means that three hours of data is displayed if it was recorded once a minute, or thirty hours of data is displayed if it is being recorded once every ten minutes. However, the display can be zoomed out so that you can literally see months of data on the screen. A trace mode shows individual data points with the day and time they were collected.

Technical Specifications:

Display

Channels	Pressure only Pressure and temperature Pressure and temperature and humidity
Current Conditions Display	1. Conditions for each sensor 2. Battery condition indicator 3. Max/Min temperature of each sensor 4. Alarm enabled/disabled 6. Date and time
Display Resolution	0.1°F, 1%RH, 0.001"WG. (0.0001 on PC)
Monitoring	Continuous with active display
Max/Min Display	Shows on active display. Resets with Easy Touch.
Size	8 3/8" x 5" x 1 3/8"
Sample Interval	User selectable: 1/min - 1/24hrs

Sensors

Temperature sensor	-20°C to 75°C (±0.3°C)
Thermistor/Humidity sensor	-20°C to 75°C (±0.3°C), RH 0% to 100% ±3.0% w 0.5% Repeatability
Pressure Sensor	-1.00"WG to +1.00"WG (±0.002"WG)

Technical Stuff

Alarms	1. Audio Visual 2. Optional strobe/siren 3. Optional Auto dialer 4. Optional Text Alert 5. Optional Email alert
Calibration:	Optional NIST traceable
Characterization:	One - three-point calibration table
Data Storage Technique	100-hour battery backed-up non-volatile memory
Non-volatile memory	80,000 samples per channel
Power	Via USB cable to wall plug or PC
Output to PC	USB cable
PC Software	Site license included
Indicators	LCD & LED

Controls	Easy Touch LCD display responses to a finger touch
User Settings	On board password-protected menu
LCD Pixels	488 horizontal x 270 vertical
LCD Temperatures	Operating 0°C to 50°C, storage -20°C to 68°C
LCD size	2.5" x 4.5"
LED	Green indicates AC power present
Relay	Dry N/O with 2 terminal clamp <30v fused for .5 amp
Mounting	Wall mount - Velcro.
Display weight	1 lb