Description:

The TV2 Room Pressure monitor is a highly engineered monitor/alarm/logger with a simple user interface. It is the only device which monitors, alarms, logs and charts indoor environmental conditions. As many as four sensors can be wired to the monitor.

The monitor has four sockets which can be used for pressure or temperature/RH sensors, in any combination. Monitored conditions are updated every few seconds. In addition to continually displaying current conditions it also logs all of the data

Alarms:

The TV2 displays constantly updated information alerting staff members locally and remotely if an alarm condition occurs.

There is a two stage alarm system designed to alert staff members who are near the alarm and staff members who are in other areas of the facility or even at home.
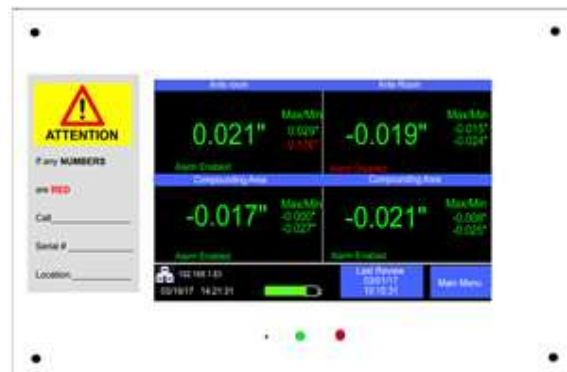
Stage One: As soon as any condition becomes unsafe it immediately turns red on the display.

Stage Two: If the unsafe condition remains unsafe for longer than the delay time (user-set), the screen blinks and beeps and SMS or Email messages are sent to multiple staff member.
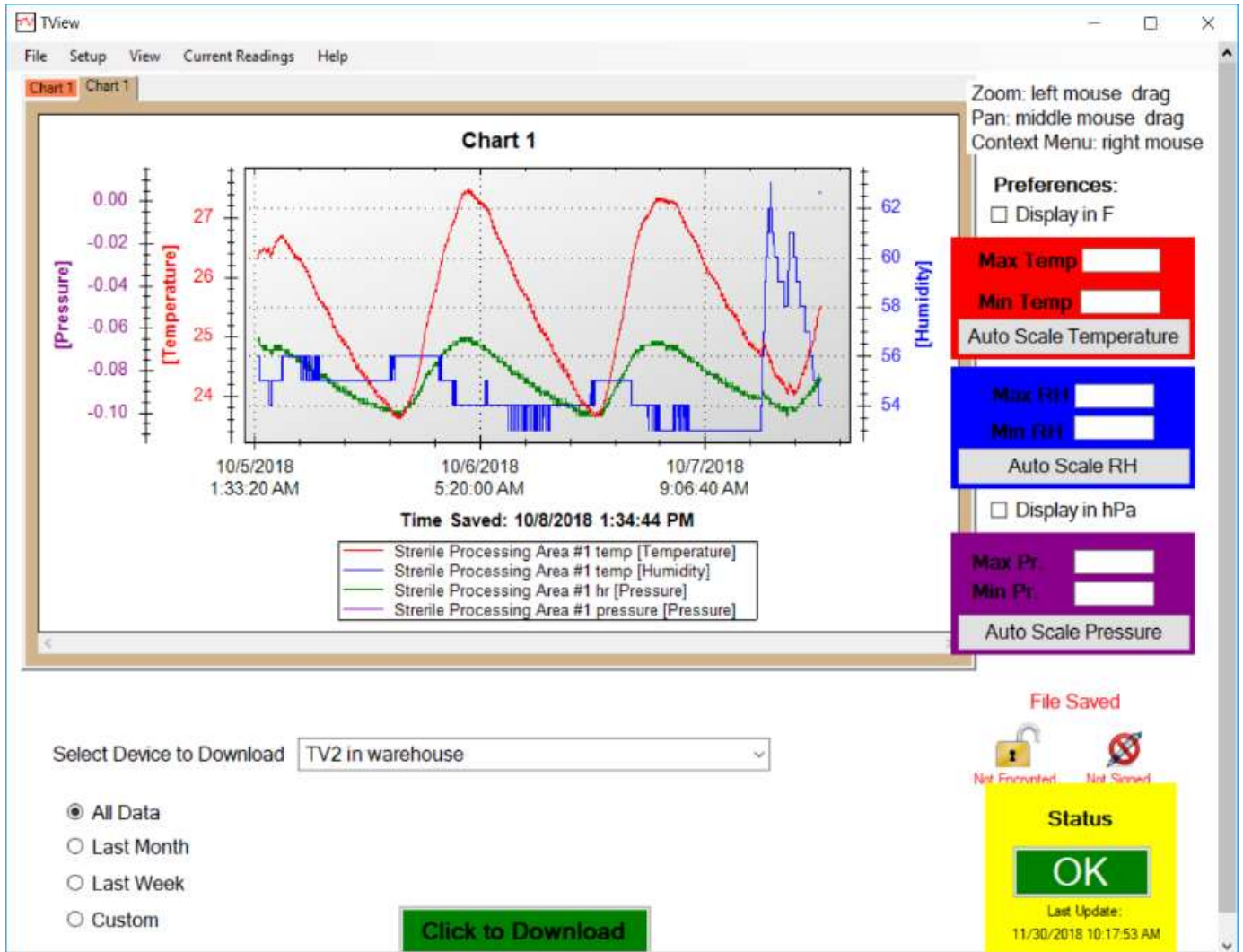
Box or Flush Mount

The TV2 is available as a box mount that attaches to the wall or a flush mount that can be mounted inside the wall.

Downloading the data to a PC

The free TView software can be used to automatically download all logged data to a PC. Or the data can be downloaded automatically creating an accessible backup on any computer in your network

TWO DIMENSIONAL INSTRUMENTS, LLC

Create a Dashboard Display on any PC in the network

Put any sensor or combination of sensors plugged into any TV2 in your network onto a dashboard using the TView software. Each sensor display updates every 4 seconds adding the latest value to its chart.

Technical Specifications:

Display	
Channels	Temperature only sensors- Four Channels Temperature/humidity sensors - Eight Channels (4 temp & 4 RH) Pressure sensors - Four channels
Current Conditions Displayed	1. One, two, three or four, sensors (Temp, Humidity or pressure) 3. Low backup battery icon 4. Max/Min value of each sensor 5. Alarm enabled/disabled for each sensor 6. Sensor battery icon (for wireless sensors only) 7. Date and time 8. Last time data reviewed
Display Resolution	0.1° C/F, 1.0% RH, 0.000" or hPA LCD, 0.0001 on PC
Monitoring	Continuous with active display (Updating every 4 seconds for wired sensors. Wireless sensors update every 20 seconds)
Alerts	Audible and visual indication on Display Text: uses local internet connection Email: uses local internet connection Phone (requires separate dialer)
Alarm Settings	High temperature High Humidity Low Temperature Low Humidity High Pressure Low Pressure Power out Low battery Missing sensor for wireless sensors
Max/Min Display	Shows on active display. Resets by touch.
Accuracy & Range	Sensor dependent. (See sensor specs below)
Size of TV2 Monitor	8 3/8" x 5" x 1 3/8"
Sample Interval	User selectable: 1/min - 1/24hrs

Sensors
Note: Wired and wireless sensors can not be mixed on the same monitor

Wireless Sensors	
Thermistor sensor	-30°C to 75°C (±0.3°C), (±0.2°C option) submersible
Thermistor/Humidity sensor	-30°C to 75°C (±0.3°C) 0% to 100% RH (±3.0%) w ±0.5% Repeatability
Extreme Temperature Wireless Sensors	
K Thermocouple sensors*	-200°C to 1250°C. Accuracy ±2.2°C or ±0.75%, below 0°C ±2%
E Thermocouple sensors*	-200°C to 900°C. Accuracy ±1.7°C or ±0.5%, below 0°C ±1%
J Thermocouple sensors*	-0°C to 750°C. Accuracy ±2.2°C or ±0.75%
T Thermocouple sensors*	-250°C to 350°C. Accuracy ±1.0°C or ±0.75%, below 0°C ±1.5%

Wired Sensors	
Digital temperature sensor	-30°C to 80°C (±0.2°C) submersible ±0.005°C repeatability
Thermistor sensor	-20°C to 75°C (±0.3°C), (±0.2°C option) submersible
Thermistor/Humidity sensor	-20°C to 75°C (±0.3°C) 0% to 100% RH (±3.0%) 0.5% Repeatability
Extreme Temperature Wired Sensors	
K Thermocouple sensors*	-200°C to 1250°C. Accuracy ±2.2°C or ±0.75%, below 0°C ±2%
E Thermocouple sensors*	-200°C to 900°C. Accuracy ±1.7°C or ±0.5%, below 0°C ±1%
J Thermocouple sensors*	-0°C to 750°C. Accuracy ±2.2°C or ±0.75%
T Thermocouple sensors*	-250°C to 350°C. Accuracy ±1.0°C or ±0.75%, below 0°C ±1.5%
Differential Pressure Sensors for Positve or Negative Pressurized Areas	
Pressure Sensor	±1"wg (Accuracy ±0.002"wg)

Technical Stuff	
Calibration	Optional NIST traceable (1,2 or 3 points)
Characterization	Three point calibration table for each sensor
Controls	Easy-Touch™display responds to a finger touch
Data Storage Technique	Non-volatile memory storage of 80,000 samples per sensor
Power	Via USB cable or optional power adaptor (90 to 240vac)
Battery Backup	~72 hrs while in sleep mode. 1100mAh rechargable lithium battery. Not user serviceable.
Output to PC	6' USB cable (Note: if USB cable is plugged into PC, power is supplied by PC)
PC Software	Free site license included with text/Email alert
Indicators	LCD & LED (red/green)
User Settings	On board password-protected menu
LCD Pixels	488 horizontal x 270 vertical
LCD Temperature Range	Operating 0°C to 50°C, storage -20°C to 68°C
LCD size	2.5" x 4.5"
LCD color display life	~4.5 years
LED	Green indicates AC power present. Red - operating on battery.
Relay	Dry N/O with 2 terminal clamp <30v. Fused for .5 amp
Mounting	Wall mount - Velcro.
Flush Mount	6.5" x 8" or 7.5" x 9" - four holes for molly bolts or screws
Instrument Case Mount	12" x 12" x 4" with knockout ports
Display weight	1 lb
Shipping weight	~3 lbs with power adaptor, sensors & cables

Mix and match sensors in any combination on the TV2 display