

# ViewSmart 2150/2050 Controller



ViewSmart 2050 Compact Enclosure



ViewSmart 2150 Extended Enclosure

The **ViewSmart 2050/2150** 2 Channel Controller provides simultaneous display and alarm functions for two monitored variables. Easy to configure and user friendly, the **ViewSmart 2050/2150** can function as a critical alarm controller for toxic gases, combustible gases, vibration, tank levels and other process values.

## FEATURES

- Accepts inputs from up to two 4-20mA sensors transmitters, direct electrochemical sensors, or direct catalytic bead sensors. Generates 24VDC external device power for transmitters and other devices
- Three adjustable independent alarm levels per channel. "Relay Acknowledge" feature allows silencing of external audible devices during existing alarm conditions
- Graphic LCD readout displays monitored data as bar graphs, engineering units, and 30 minute trends. Alarm LED's flash when new and become steady after acknowledged
- Two standard programmable SPDT alarm relays are configurable for HORN, HIGH, WARN or FAULT alarm conditions
- Modbus® slave RS-485 serial port interfaces to Modbus® devices such as PCs, PLCs, DCS, and other RC Systems controllers
- Cal Mode offers pushbutton zero / span calibration for direct sensor interface applications
- Authorization mode allows locking of critical configuration variables
- Touch and magnetic keypad are standard for non-intrusive operation in potentially hazardous locations
- Enclosures Include: NEMA 4X Non- Metallic, Epoxy Coated Steel, NEMA 4X 316 SS
- Non-volatile memory retains all configuration data indefinitely
- RS-485 Modbus® slave port for up to 128, devices to be multidropped on a single data highway for interrogation by another Modbus® master
- Six additional 5 amp SPDT discrete channel alarm relays available (two are standard)
- 4-20mA outputs, event log, strobe lights and audible annunciators also available
- 50 and 120 Watt 24VDC power supplies available
- Local and remote mount sensors available
- Six 1" LED segmented displays. Displays 3 most significant digits up to 999

## SPECIFICATIONS

### INPUTS

Available inputs include local and remote mounted 4-20mA with precision 100 ohm terminating resistor (0-2 Volt inputs may be accepted by removing the socketed terminating resistor), electrochemical and bridge sensor inputs with adjustable sensor excitation and balance settings

### STANDARD ALARM RELAYS (STANDARD)

Two programmable, 5 amp 30VDC or 250VAC resistive Form C

### ANALOG OUTPUTS (OPTIONAL)

10 bit 4-20mA output. Max load 800 ohms with nominal 24VDC power supply

### DISCRETE ALARM RELAYS (OPTIONAL)

Six programmable 5 amp 30VDC or 250VAC resistive Form C

### SERIAL PORT (OPTIONAL)

Slave RS-485 port equipped with Tx / Rx LED's

Protocol is Modbus® RTU

### DISPLAY

128 x 64 pixel graphic LCD with backlight displays bar graphs, trends, and engineering units. Six discrete LED's indicate alarm status, CAL MODE, keypad activity

Six 1" LED segmented displays. Displays 3 most significant digits up to 999

### AMBIENT TEMPERATURE RANGE

-25 to +60 degrees C

### POWER SUPPLY

100-240VAC / 10-30VDC are standard primary power supplies

## MODELS

**ViewSmart** 2050 NEMA 4X Compact Enclosure

**ViewSmart** 2150 NEMA 4X Extended Enclosure

## ViewSmart OPTIONS/ACCESSORIES

|              |  |
|--------------|--|
| 10-0221/Dual | Dual Channel 4-20mA input                        |
| 10-0216      | One bridge sensor/one EC sensor input combo      |
| 10-0219      | Dual bridge sensor input                         |
| 10-0220      | Dual Electrochemical sensor input                |
| 10-0222      | Optional alarm relay board (6, 5A form C relays) |
| 10-0223      | Dual 4-20mA output                               |
| 10-0253      | RS-485/RS232 Modbus RTU interface                |
| 10-0337      | 100dB piezo audible option                       |
| 10-0413      | Push button suitable for general purpose areas   |
| 1000-2259    | 50 Watt AC/DC power supply module                |
| 1000-2373    | 120 Watt AC/DC power supply module               |
| 1000-2808    | Amber strobe general purpose                     |
| 1000-2809    | Blue strobe general purpose                      |
| 1000-2810    | Red strobe general purpose                       |
| 1000-2812    | Purple strobe general purpose                    |
| 1000-2813    | Clear strobe general purpose                     |

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