The ViewSmart 1600 16 Channel Modbus® Master/Slave Display and Alarm Controller provides simultaneous display and alarm functions for up to 16 monitored variables. Easy to configure and user friendly, the ViewSmart 1600 can function as a critical alarm controller for toxic or combustible gases, vibration, tank levels and other process values.

**FEATURES**

- Accepts up to 16 inputs from many sensor types and signal ranges. Modbus® master capability allows input data to be retrieved via RS-485
- Eight channel display mode and option boards allow economical configuration of systems requiring only 8 channels or less
- Dual Modbus® RS-485 serial ports for simultaneous master / slave operation
- Three independent alarm levels per channel. “Relay Acknowledge” feature allows silencing of external audible devices during existing alarm conditions
- Graphic LCD displays monitored data as trends, bar graphs and engineering units. Alarm LED’s flash when new and become steady after acknowledged
- Standard SPDT common alarm relays for HORN,HIGH, WARN and FAULT
- Options such as Bridge Sensor Inputs, 4-20mA inputs, 4-20mA outputs, discrete alarm relays are supported via an I2C expansion bus
- Cal Mode offers push-button zero/span calibration or direct sensor interface applications
- Authorization Mode allows locking of critical config -variables
- Magnetic keypad standard for non-intrusive operation in potentially hazardous locations
- Enclosures include wall mount NEMA 4X - Non-Metallic - 316 SS, NEMA 7 and Rack/Panel Mount

CSA certified for Division 2 potentially hazardous areas (Division 1 model = ST-71XP)
**SPECIFICATIONS**

**ANALOG INPUTS (OPTIONAL)**
12 bit 4-20mA into 100 ohms input impedance; includes +power supply terminals for each channel for routing power to two or three wire transmitters

**COMMON ALARM RELAYS (STANDARD)**
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)**
Four 5 amp 30VDC or 250VAC resistive Form C

**SERIAL PORT (STANDARD)**
Modbus Master and Slave RS-485 ports equipped with Tx / Rx LED’s

**DISPLAY**
128 x 240 pixel graphic LCD with backlight displays bar graphs, trends and engineering units. 52 discrete LED’s indicate alarm status for three alarms per 16 channels and common relays

**AMBIENT TEMPERATURE RANGE**
-25 - 60 degrees C

**POWER SUPPLY**
10 - 30VDC 12 Watts max required by ViewSmart 1600
10-0172 option = 150 Watt

**APPROVALS**
CSA C22.2 No 1010.1 and C22.2 No.152 for combustibles and ISA S82.02
UL 1604 / C22.2 No 213 (NEMA 4X = Division 2 Groups A,B,C,D)
EN55011 and EN61000 (CE Mark)

Model ViewSmart 1600 XP 71-02 = NEMA 7 Division 1 Group B,C,D

**MODELS**
- 71-01 ViewSmart NEMA 4X wall mount
- 71-02 ViewSmart NEMA 7 wall mount explosion-proof
- 71-04 ViewSmart panel mount rack (includes bezel/rack hardware)
- 71-06 ViewSmart NEMA 4X 316 wall mount stainless steel

**OPTIONS/ACCESSORIES**
- 10-0144 Auxiliary relay board adds 5 amp Form C common relays for Alarm 1, Alarm 2 and Horn
- 10-0158 8 channel 4-20mA analog input board
- 10-0167 8 channel 4-20mA analog output board
- 10-0195 8 channel discrete 5 amp Form C relay board configurable for Alarm 1, Alarm 2 or FAULT
- 10-0170 8 channel resistive/RTD/mA input board
- 10-0191 8 channel catalytic bead sensor input board
- 10-0192 Dual catalytic bead modules for 10-0191
- 10-0172 24VDC 150 Watt power supply
- 10-0229 Printer interface board (serial / parallel)
- 10-0178 Expansion NEMA 4X enclosure for 8 options
- 10-0208 Full 19" rack (Supports one or two 71-03’s)
- ST-71-HMI ST-71 HMI software

**ALL DIMENSIONS IN INCHES**

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