



Suprema™ Control System

[Innovation in gas measuring technology]

Suprema Control System

[Modular flexibility for individual solutions]

The Suprema Control System offers the new standard in fire and gas measuring technology.

The Suprema System's modular redundancy design provides adapted flexibility to virtually any monitoring system and safety requirement.

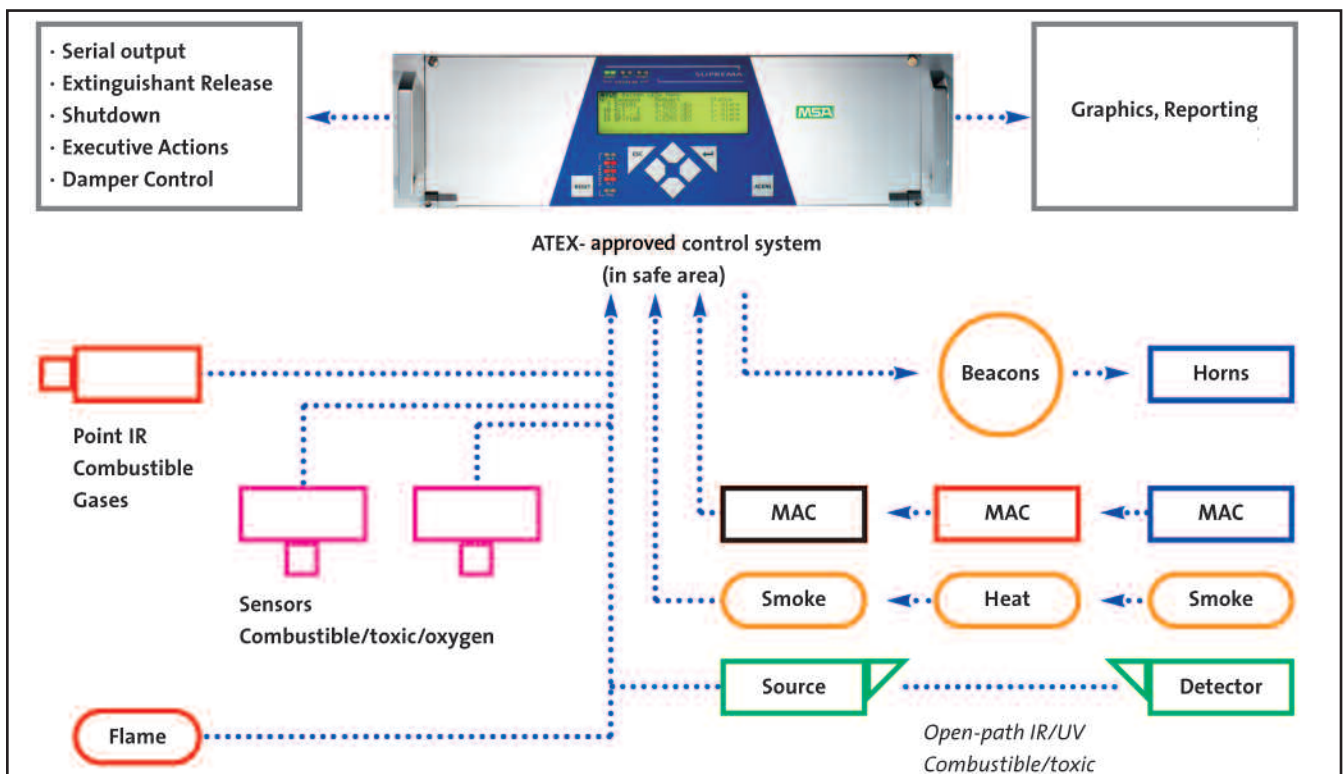
Designed around industrial 19" rack standards, the Suprema System offers signal processing for up-to 256 inputs and will provide up-to 512 relay and 4-20mA outputs.

The Suprema System is compatible with all of the MSA fire and gas products; including the **Ultima® X Series Gas Monitors**, the **SafEye Open Path Gas Detection System** and the **FlameGard® Flame Detector**. In addition, the Suprema System accommodates a variety of third-party devices such as 4-20 mA output sensors and heat and smoke sensors.

The Suprema Control System's modular, intelligent safety system is field configurable and provides a distributed bus technology ensuring fail-safe internal data transfer.

Features

- ATEX approved
- TUV approved SIL3 rating (IEC61508)
- Available in redundant system versions
- Receives 4-20mA output sensors; 2-wire and 3-wire
- Receives switched output sensors (smoke, fire, heat)
- Optional electrically-isolated analog outputs
- System and signal status LEDs
- User-friendly graphical user interface (GUI)
- Simple system operation with graphic display, text readouts, cursor keys and function keys
- Internal power supply (150W, 85-265 VAC)
- Battery connections for emergency power operation (24V)
- Interfaces to external Modbus and Profibus protocols

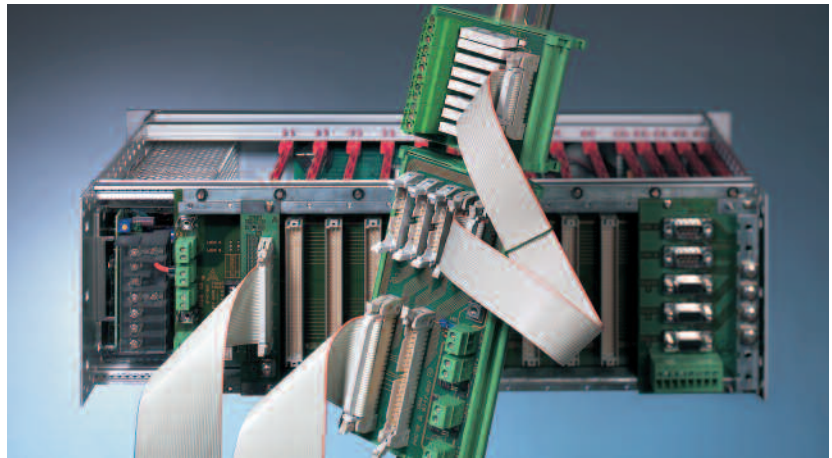


The Suprema Control System

provides a tailor-made control system ensuring fit, form and function that meet individual safety needs. The new modular system allows for I/O connections to be mounted to the back plane or rail mounted and can be configured as desired and adapted to meet each specific monitoring task.

The Suprema System is capable of controlling all system required functions, including inhibiting I/O, alarm-tripping analog signals, handling I/O faults, managing voting allocation of status signals and switched outputs, control of annunciation panels and other outputs devices such as fans and dampeners, along with interfacing to other systems (HVAC, ESD, etc.) through digital bus communications.

The digital bus technology ensures reliable communication between racks and allows for system flexibility with satellite monitoring racks – up to 8 per system – to be located at distances up-to 1 mile apart. This provides the most flexibility and ensures system wiring is minimized and overall system costs are as low as possible. The Suprema System also interfaces to external bus systems such as Modbus and Profibus.



Modular flexibility for individual solutions

Benefits

- Space-saving compact modular design
- Easy installation with plug-in ribbon cables
- Flexible planning with integrated modules
- Straightforward system expansion
- Simple mouse-click configuration for voting, alarm grouping and multiple task activations
- Minimal cost of ownership

- Large control keys
- Large graphic back-lit display with plain-text readout
- Easy-to-see LED arrays for system and input status

- Menu-driven, self-explanatory user interface
- Detailed diagnosis and event recording
- Simple parameter setting and calibration

information	sensor data	alarms
measuring point: 3	clear	<input type="checkbox"/> locked
1st alarm: <input checked="" type="checkbox"/> upper limit	<input checked="" type="checkbox"/> latched	limit: 30 %LEL set output: [dropdown]
2nd alarm: <input checked="" type="checkbox"/> upper limit	<input checked="" type="checkbox"/> latched	limit: 40 %LEL set output: [dropdown]
3rd alarm: <input type="checkbox"/> upper limit	<input type="checkbox"/> latched	limit: [input] %LEL set output: [dropdown]
4th alarm: <input type="checkbox"/> upper limit	<input type="checkbox"/> latched	limit: [input] %LEL set output: [dropdown]

System configuration can be done at the Suprema panel with the function keys or through a menu-driven PC interface.

Safety System Solutions

[Fire and Gas Systems to Suit Virtually Any Safety Philosophy]



MSA designs, builds and integrates fire and gas detection systems – providing reliable turn-key solutions for projects of any size. MSA can offer stand-alone or integrated solutions tailored to your specific safety philosophy and plant requirements.

Select the appropriate method for your needs – a simple system or one with double or triple redundancy. The extensive experience of MSA allows us to recommend the best combination of detectors, field devices, components and systems to meet your safety needs.

Specifications

Operating

- Temperature Range: 23 to 131 F (-5 to 55 C)
- Power (optional): 85 – 265 VAC, 50/60 Hz, 150W
- Humidity: 0 – 95% RH noncondensing

Relays

- Relay outputs (230V, 3A)
- Switched outputs as open-collector driver (24V, 0.3A)

Key Features

- System LED status indicator: Green (power), Orange (fail and inhibit)
- Signal LED status indicator: Red (four levels of alarm), Orange (fail)
- Signal processing for up to 64 inputs in one 19" rack
- Hot swap replacement
- Operating voltage range: 18-32V
- Key switch or password for secure access control
- Key operated switch for relay inhibit
- 2 x RS-232 electrically isolated interfaces for data transfer to PC/laptop/printer

ATO Ordering Information*

A-SUPREMA

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1	2	3	4	5	6	7

<p>1 # of 4-20mA Output Sensors (64 maximum - rail mount)</p> <p>2 # of Relay Outputs (First 8 relays common; 80 maximum - rail mount)</p> <p>3 Mounting Style A Rail Mount B Back Mount</p> <p>4 Power Supply o None 1 150W, 85-265 VAC</p>	<p>5 Safety Integrity S Simplex D Duplex T Triple CPU</p> <p>6 Bus Interface o None M Modbus RTU P Profibus DP</p> <p>7 Custom Features o None C Custom</p>
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* Contact MSA for systems requiring more than 64 4-20mA output sensors and/or 80 relay outputs, analog outputs, heat and smoke sensors, satellite racks and other custom requirements.

Note: This Data Sheet contains only a general description of the product shown. While uses and performance capabilities are described, under no circumstances should the product be used except by qualified, trained personnel, and not until the instructions, labels or other literature accompanying the product have been carefully read and understood and the precautions therein set forth followed. Only they contain the complete and detailed information concerning this product.

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