

# SUPREMATouch Modular Fire & Gas Detection System

Modular flexibility for individual solutions

The SUPREMATouch Fire and Gas Detection System's modular design meets requirements of a diverse range of industries and applications and complies with all relevant global safety standards.

The system builds upon the success of the original innovative SUPREMA® Control System design and features a large color touchscreen display, enhanced processing capabilities and optional integration of addressable fire and smoke detectors. This system can be used with a wide range of detectors, including combustible and toxic gas, oxygen, smoke, fire, and heat. Output options include relay and analog and digital communication between racks, allowing interface to external systems using Modbus or Profibus.

The SUPREMATouch System's modularity enables many fire and gas detection configurations that meet requirements of virtually any application, including redundant systems with up to Safety Integrity Level (SIL) 3 rating (IEC 61508).

## Features and Benefits

- Compact modular design requires fewer cabinets, saving space
- Decentralized configuration; use of satellites minimizes wiring
- Plug-in ribbon cables for easy installation and system extension
- Future-oriented technology reduces upgrade costs
- Digital bus technology provides reliable communication to external bus systems
- System configuration by checkbox selection; no programming skills required
- Connections for three system power supplies enables automatic switchover to backup supply



SUPREMATouch Modular Fire & Gas Detection System Specifications	
<b>ENCLOSURE</b>	Standard 19" rack (up to 8 racks per system) Optional NEMA 4 wall-mount cabinet
<b>SYSTEM</b>	Satellites for decentralized input and outputs up to a distance of 1.2 km Optional redundant configuration Event and fault diagnosis logging
<b>INPUTS</b>	Up to 256 per system Up to 64 per rack
<b>OUTPUTS</b>	Up to 512 per system Up to 80 per rack Switched open-collector driver (24 V, 300 mA) Relays – SPNO or SPST redundant (230 V, 3 A) Optional solid state relays for low-current applications Software control of switched outputs/relays: <ul style="list-style-type: none"> <li>• Group creation</li> <li>• N out of m alarms</li> <li>• Alarm multiplication</li> </ul>
<b>POWER SUPPLY</b>	Operating voltage: 18 to 32 VDC Optional rack power supply – 85 to 265 VAC, 150 W, 50/60 Hz Power supply connections for internal, external and battery backup (24 VDC) with automatic switch-over
<b>DISPLAY</b>	Color LCD touchscreen with backlight 5.7" TFT with 320 x 240 resolution
<b>CONTROLS &amp; INDICATORS</b>	Alarm reset and acknowledge keys Front panel LEDs for alarms 1, 2, 3, and 4, signal fail, inhibit, power, and system fail 3-level password or keyswitch for secure access control
<b>SENSORS</b>	Catalytic or IR for combustible 4–20 mA transmitters Electrochemical for toxic and oxygen Conventional smoke, heat and fire detectors Addressable smoke, heat and fire detectors via external fire panel
<b>APPROVALS</b>	ATEX (EN 50104, EN 50271, EN 61779-1, EN 61779-4, EN 61779-5) CSA / CSA us SIL 3 (EN 50402, EN 61508) GB16808-2008 Combustible Gas Alarm Control Units (China)
<b>INTERFACES</b>	Optional interfaces to external bus systems (Modbus RTU and TCP, Profibus) 2 x RS-232 and 1 x USB electrically isolated interfaces for data transfer Printer report of system events (standard ASCII, 80 CHR)