

# Model SCX

## Gas Detection Control System

Toxics - Oxygen Deficiency - Combustibles - Hydrocarbons - VOCs - Refrigerants

Safeguard Analytics model series SCX controllers are scalable systems for continuous detection and monitoring of hazardous gases in a wide range of applications. The controllers are designed for applications requiring 1 to 32 sensors. Sensor integration is via serial MODBUS, analog 4-20 milliamp or a combination of both. Serial MODBUS sensors can be auto configured using data stored in SA2 series smart sensors or modified via front panel push buttons. Analog sensor configuration is via full script instructions on the display. The systems feature 4 10 amp form "C" alarm relays. Default configuration is 3 programmable alarm levels and a fault condition relay.



### Standard Features

- Capacity up to 32 smart sensors and optional analog input for up to 8 analog 4-20mA devices
- Full script HMI color LCD
- System status via green, amber, red blue backlit
- Addressable output MODBUS RTU RS-485
- NEMA 4X for indoor and outdoor locations

### Typical Applications:

Oil & Gas Production Sites

Mining Industry

Environmental and Safety Monitoring

Water and Wastewater Treatment Plants

Chemical and Petrochemical Plants

Construction and Reclamation Sites

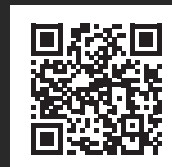
Agriculture

Landfills

#### Safeguard Analytics

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#### Questions about SCX systems?



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### Specifications<sup>1</sup>

| System          |                                           |
|-----------------|-------------------------------------------|
| Capacity        | 32 sensors with optional 8 analog devices |
| Digital Display | Color status LCD - HMI                    |
| Input Signal    | MODBUS RTU 9600 bps                       |
| Output Signal   | Selectable MODBUS RTU 9600 or 115200 bps  |
| Mechanical      |                                           |
| MODBUS Only     | 8in(W) x 10in(H) x 6in(D)                 |
| MODBUS + Analog | 10in(W) x 14in(H) x 6in(D)                |
| Warranty        |                                           |
| Transmitter     | 2 Years                                   |
| Smart Sensor    | Sensor technology dependent               |

<sup>1</sup>Specifications subject to change without notice.

| Electrical             |                                                  |
|------------------------|--------------------------------------------------|
| Input Voltage (Direct) | 90 to 240 VAC 50/60 Hz 80 Watts                  |
| Auxiliary Power        | 10-30 VDC                                        |
| Power Consumption      | 3 Watts without sensors                          |
| Alarm Relays           | Alarm Level 1,2,3 + Fault<br>Form C 10A Contacts |
| Area Classification    |                                                  |
|                        | Non-Hazardous Locations<br>NEMA 4X Weatherproof  |
| Environmental          |                                                  |
| Temperature Range      | -40°C to +60°C *                                 |
| Humidity Range         | 0-95% non-condensing                             |
| Pressure Range         | 1 atmosphere ± .1                                |

\*Power consumption and temperature requirements are sensor dependent.

### Order Guide

| Part Number |                                                                                                                                              |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 927-00100   | Model SCX-400M Gas Detection Control System 4 sensor capacity and 4 relay outputs in Non-Hazardous NEMA 4X enclosure                         |
| 927-00200   | Model SCX-800M Gas Detection Control System 8 sensor capacity and 4 relay outputs in Non-Hazardous NEMA 4X enclosure                         |
| 927-00300   | Model SCX-1600M Gas Detection Control System 16 sensor capacity and 4 relay outputs in Non-Hazardous NEMA 4X enclosure                       |
| 927-00400   | Model SCX-3200M Gas Detection Control System 32 sensor capacity and 4 relay outputs in Non-Hazardous NEMA 4X enclosure                       |
| 927-01100   | Model SCX-400A Gas Detection Control System with 4 analog inputs and 4 relay outputs in Non-Hazardous NEMA 4X enclosure                      |
| 927-01200   | Model SCX-800A Gas Detection Control System with 8 analog inputs and 4 relay outputs in Non-Hazardous NEMA 4X enclosure                      |
| 927-02100   | Model SCX-800MA Gas Detection Control System 4 sensor capacity with 4 analog inputs and 4 relay outputs in Non-Hazardous NEMA 4X enclosure   |
| 927-02200   | Model SCX-1200MA Gas Detection Control System 8 sensor capacity with 4 analog inputs and 4 relay outputs in Non-Hazardous NEMA 4X enclosure  |
| 927-02300   | Model SCX-1600MA Gas Detection Control System 8 sensor capacity with 8 analog inputs and 4 relay outputs in Non-Hazardous NEMA 4X enclosure  |
| 927-02400   | Model SCX-2400MA Gas Detection Control System 16 sensor capacity with 8 analog inputs and 4 relay outputs in Non-Hazardous NEMA 4X enclosure |
| 927-02500   | Model SCX-4000MA Gas Detection Control System 32 sensor capacity with 8 analog inputs and 4 relay outputs in Non-Hazardous NEMA 4X enclosure |

Safeguard Analytics follows a continuous improvement policy, ensuring ongoing enhancements to its products and manufacturing processes. As a result, specifications are subject to change without prior notice. For the most up-to-date product details, please visit our website at [www.safeguardanalytics.com](http://www.safeguardanalytics.com) or contact us via email at [info@safeguardanalytics.com](mailto:info@safeguardanalytics.com).

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