Time for an upgrade?

Is time on your side? If you've been thinking about updating your installed General Monitors equipment with the latest technological improvements in gas and flame detection, now may be the perfect time to do so. Many General Monitors current models are backwards-compatible with discontinued models, making retrofitting easy. Plus, when you upgrade to our latest models, not only do you acquire the newest technology, but you also receive a new warranty for added peace of mind.

MSA
The Safety Company

WE KNOW WHAT'S AT STAKE.

Controllers/Trip Amplifiers

Retired Model #	Product Description	Released	Replacement Model #	Upgrade Advantages				
				Same Footprint	Uses Existing Wiring	Same Sensor/ Detector	Digital Display	Auto Cal
130/160/180	HC Single Channel	1971	580A***		■	■	■	■
520	Dual Channel Controller	1971	580A***			■	■	■
2170	H_2S Single Channel	1977	2280A***	■	■	■	■	■
2600	H_2S Multi-channel	1982	Zero Two System			■	■	■
4800	HC Multi-channel	1980	Zero Two System			■	■	■
4801	HC Controller	1987	4802A**		■	■	■	■
480	HC Single Channel	1980	580A	■	■	■	■	■
580	HC Dual Channel	1980	580A	■	■	■	■	■
610	HC Quad Channel	1982	610A	■	■	■	■	■
2180	H_2S Single Channel Gas Detector	1983	2280A*		■	■	■	■
2280	H_2S Quad Channel Gas Detector	1991	2280A	■	■	■	■	■
TA102	Trip Amplifier Module, Combustible	1987	TA102A	■	■	■	■	
TA200	Trip Amplifier, H_2S	1987	TA202A**		■	■	■	
TA202	Trip Amplifier, H_2S	1991	TA202A	■	■	■	■	
TA300	Trip Amplifier	1987	TA502A**			■	■	
TA400	Trip Amplifier, UV/IR Flame Detector	1987	TA402A**		■	■	■	
TA401	Trip Amplifier, UV Only Flame Detector	1987	TA402A**		■	■	■	
TA402	Trip Amplifier, Flame Detector	1991	TA402A	■	■	■	■	
TA700	Trip Amplifier	1990	TA502A**		■	■	■	
TA702	Trip Amplifier, CO	1991	TA502A	■	■	■	■	
TA722	Trip Amplifier, Oxygen Deficient	1994	TA502A	■	■	■	■	

*Requires 4" space, ** Requires new RK02 rack, *** Requires new rack*

Flame Detection Products

Retired Model #	Product Description	Released	Replacement Model #	Upgrade Advantages		
				Same Footprint	Use Existing Wiring	Increased False Alarm Immunity
FL201	2-Channel Flame Controller	1982	FL802†			
FL801	8-Channel Flame Controller	1982	FL802†			
TYPE VI	Flame Detector, UV/IR	1984	FL500†			■
FL3000	Flame Detector, UV/IR	1989	FL500		■	■
FL3002	Flame Detector, IR/IR	1990	FL4000H		■	■
FL3100/FL3100H	Flame Detector, UV/IR	1998	FL500		■	■
FL3100H-H2	Flame Detector, UV/IR, hydrogen-specific	2009	FL500-H2		■	■
FL4000	Flame Detector, Multi-Spectral IR (MSIR)	2005	FL4000H	■	■	■

† When upgrading from a Type V/Type VI system, both controllers and detectors must be replaced. All require 3-wire shielded cable. 24 VDC must be supplied.

Field Devices

Retired Model #	Product Description	Released	Replacement Model #	Upgrade Advantages					
				Same Footprint	Use Existing Wiring	Same Sensor/ Detector	Digital Display	Auto Cal	TruCal Option**
SC100	Combustible Gas Smart Sensor, Catalytic Bead	1984	S5000		■	■	■	■	
S104*	Combustible Gas Smart Sensor, Catalytic Bead	1990	S5000	■*	■	■	■	■	
S106*	Combustible Smart Sensor, Digital Display, 1 Relay, Catalytic Bead	1992	S5000	■*	■	■	■	■	
S106A	Combustible Smart Sensor, 3 Relays, Catalytic Bead	1995	S5000	■	■	■	■	■	
S4000C	Combustible Gas Detector, Intelligent, Catalytic Bead	2001	S5000	■	■	■	■	■	
IR2000	Combustible Gas Monitor, Infrared	1992	S5000/IR400		■	■		■	
IR2100	Combustible Gas Monitor, Infrared Point	1997	IR400	■	■	■		■	
IRFMD	Field-mounted Display for IR2100	2000	S5000	■	■	■	■		
IR5000	Combustible Infrared Open Path Detector	1996	IR5500	■	■	■	■		
OBSERVER/ OBSERVER-H	Ultrasonic Gas Leak Detector	2005/2011	Observer-i	■	■		■		
SURVEYOR	Ultrasonic Gas Leak Detector	2007	Observer-i				■		
ST200	H_2S Smart Sensor, MOS	1984	S5000		■	■	■	■	
S204*	H_2S Smart Sensor, Digital Display, MOS	1991	S5000	■*	■	■	■	■	
S206*	H_2S Smart Sensor, Digital Display, 1 Relay, MOS	1992	S5000	■*	■	■	■	■	
S214*	H_2S Smart Sensor, Single-point Calibration, MOS	1993	S5000	■*	■	■	■	■	
S216*	H_2S Smart Sensor, 1 Relay, MOS	1993	S5000	■*	■	■	■	■	
S216A	H_2S Smart Sensor w/3 Relays, MOS	1995	S5000	■	■	■	■	■	
S4000T	H_2S Intelligent Sensor, MOS	2001	S5000	■	■	■	■	■	
S700	Toxic Smart Sensor, CO	1989	S5000		■		■	■	■
S720/721/TS420	Oxygen Deficient, Smart Sensor	1991/2002	S5000		■		■	■	
TS400/TS400/ TS4000H	Toxic Gas Detector, Intelligent, Electrochemical	2003	S5000	■	■		■	■	■
TSFMD	Field Mounted Display for TS400	2000	S5000	■	■		■		

*Pre-1994 models do not have the same footprint.   **H_2S and CO only.*

SC100   **S106 & S104**   **IR2000**   **IR2100**   **IR5000**   **TSFMD**
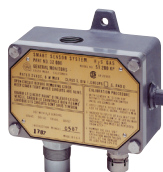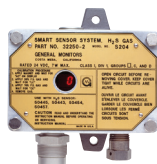
ST200   **S204**   **S216A & S214**   **Type V & VI**   **FL3000**   **TS4000**
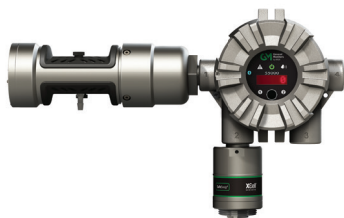
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Upgrade Benefits

S5000 Gas Monitor

- Ideal for extreme conditions
- Detects combustible, H_2S and/or toxic gases
- Dual sensing capability
- HART, Modbus, Bluetooth, 4-20 mA (sink or source) communication options
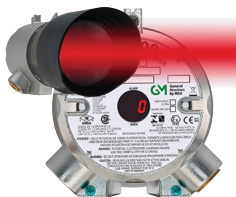
IR400 Point IR Gas Detector

- Faster calibrations
- No-tool, magnetic splash guard
- Reduced power consumption
- HART option

IR5500 Open Path Gas Detector

- Increased detection range
- Reduced power consumption
- Increased fog immunity
- HART, Modbus communication options

Senscient ELDS Open Path Gas Detector

- Enhanced laser diode spectroscopy
- Harmonic fingerprint identifies target gas
- Simugas daily self testing
- HART, Modbus, Bluetooth communication options

Observer-i Ultrasonic Gas Leak Detector

- ANN technology distinguishes real gas leak noise from background noise
- Detects gas leaks from 2 BAR (29 psi) pressure
- Does not require in-field training
- HART, Modbus communication options

FL4000H MSIR Flame Detector

- Superior false alarm immunity
- Longer detection range
- Event logging
- HART, Modbus communication options

FL500 UV/IR Flame Detector

- Wider field of view
- LED status indicators
- Six fuel sources FM performance approved
- HART, Modbus, 4-20 mA (sink or source) communication options
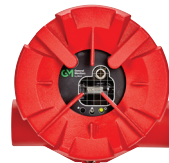
FL500-H2 UV/IR Flame Detector

- Specifically designed to detect hydrogen fires
- Wide field of view
- LED status indicators
- HART, Modbus, 4-20 mA (sink or source) communication options

MSA operates in over 40 countries worldwide. To find an MSA office near you, please visit **MSAsafety.com/offices**.