

SOLARSHIELD

Solar Powered Detection System
Flame | Toxic | Combustible



- **Pre-Wired and Plugable Modular Design Allows Fast, Straight-forward Field Installation**

- **Quick Connectors Between Controller, Panels, and Batteries**

- **Full Range of Innovative Low Power Flame, Combustible and Toxic Gas Sensors Available**

- **Minimum 14 Days of Full Autonomy**

- **Wall or Pole Mountable**

- **Rugged and Proven Component Package**

- **Operating Range of -40°C to +75°C**

- **CSA Certified Class 1, Division 2, Groups C & D**

Net Safety's autonomous solar power system, the SolarShield, is easy to install and simple to use. It's clever modular design is conveniently pre-wired and employs quick-connectors and plugable cables between the controller, solar panels and batteries. Secure your remote site and protect personnel with a proven independent detection system utilizing a variety of sensor types.

No need to work numerous specifications through electrical contractors, wasting time and budgets. Simply select the hazard protection you need (Flame, Toxic or Combustible Gas detection) and provide us with your specific installation location and load requirements. We'll use that information to deliver a complete solar powered system that is sized to meet your unique site requirements and up and running in minutes. With the Net Safety SolarShield's prepackaged design and easy to configure outputs, wiring is minimized - saving you time and money when installing or performing maintenance.

All sensor options (Flame, Toxic or Combustible Gas) are designed to draw as little as 35 mA of power. To obtain the lowest load possible, the Millennium is manufactured with solid state relays, the ability to dim the LED display, and an option to switch off the 4-20 mA output circuitry when not in use. The Millennium does not sacrifice any features or functionality through our advanced low-power design. The compact and explosion-proof Millennium has a power disconnect switch and meter test jacks to simplify maintenance, a multi-language scrolling LED display to facilitate calibration and configuration, and an internal push button and external magnetic switch for one-person intrusive or non-intrusive calibration.

Net Safety's line of low power flame and gas detectors combined with the SolarShield package produce a simple and cost-effective solution — without sacrificing performance or quality — for locations where connecting to a conventional power source is not practical or possible.

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Solar Powered Detection System (Flame | Toxic | Combustible)

BCR-0031-00-007

SPECIFICATIONS

SOLARSHIELD 1

Operating Voltage Range	Optional 12 or 24 V available
Power Consumption	Maximum 10 Amps Draw
Operating Temperature Range	Certified: -40°C to +75°C (-40°F to +167°F) Wireless Option: -40°C to +70°C (-40°F to +158°F)
Humidity Range	0 to 95% RH, non-condensing
Relay Contacts	Contacts Rated 2.5A at 60Vdc or 5A at 30Vdc Selectable Energized/de-energized, latching/non-latching Low/High Alarm Relay Fault Relay Fail-safe Fixed As Energized, Non-latching Solid State or Electromechanical
Enclosure	Rated NEMA 3R Controller Terminal Box - 23lbs/10.5Kgs 2-Battery Box - 45lbs/20.5Kgs (without batteries)
Certifications	QPS Certified Class I, Division 2, Groups C and D T3 Exn AC IIB 12 VDC/24VDC, 4W, Certified: CSA 213, 14, E600 79-15
Features	Meter Jacks 8 Character, Scrolling LED Display Power And Status LED Internal Calibration/Reset Button Multiple Output Options Quick Connect Cables Standard Liquid Tight Fittings Standard 5.5 ft Battery Box Power Cable Assembly Standard 20 ft Solar Panel Power Cable Assembly
Fuse	Sand Filled Ceramic Fuses ONLY (10Amp)
Batteries	Sealed Fiber Matte Gel Batteries
Mounting Options	Wall Mount or Pole Mount (pole not included)
Wireless Range/Frequency	2+ Miles (3.2+km) [600-100 Feet (180-305 m) In Heavily Obstructed Areas] / 902-928 Mhz - ISM Band
Warranty	3 Years Electronics / 2 Years Sensors - 1 Year Batteries (Manufacturer's Warranty)

* Contact the factory for more specifics on model variants — nmsales@net-safety.com

ORDERING INFORMATION

Electronics Enclosure

SS1-HSG-ASSY-12V — Enclosure And Cables - 12V
SS1-HSG-ASSY-24V — Enclosure And Cables - 24V

Battery Enclosure

SS-2BAT-ASSY — 2-Battery Enclosure And Cables

Solar Panels and Batteries

Call factory for available configurations

Controller & Sensor

SS1-R-SC1100 — SolarShield 1, Single Channel, Relay Output for Electro-Chemical COMBUSTIBLE Sensor
SS1-S-SC1100 — SolarShield 1, Single Channel, Relay Output for Solid State COMBUSTIBLE Sensor
SS1-R-ST1200 — SolarShield 1, Single Channel, Relay Output for Electro-Chemical TOXIC Sensor
SS1-S-ST1200 — SolarShield 1, Single Channel, Relay Output for Solid State TOXIC Sensor

Accessories

CAB-0041 — Battery Box Interconnect Cable

Compatible NET SAFETY Detectors

Combustible Gas Detection — SCXXXX Series Sensors
Toxic Gas Detection — ST1200 Series Sensors
Flame Detection — IRS-A (Infrared), UVS-A (Ultra-violet), UV/IRS-A (Ultra-violet / Infrared)

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