

# The G1 Integrated SCBA System

For 21st Century Emergency Response



*Because every life has a **purpose...***





## The Way **You Work**

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*A first response team is like a finely tuned orchestra. All members play their part to optimize efficiency and performance. That's the inspiration behind the new G1 SCBA. All components are tightly integrated into one streamlined holistic system that maximizes reliability and increases capability. The G1 is especially designed for the challenges faced by 1st responders.*

## The Best of **the Best**

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*Even by exacting MSA standards, the G1 SCBA is something special. It represents the first time we've developed one top-of-the-line SCBA to meet and exceed all high-level international quality and safety standards such as NFPA (North America) and EN (Europe). The MSA G1 is the system of choice whenever and wherever firefighting demands the very best in respiratory protection equipment.*

# The G1 Integrated System

## Optional Head-Up-Display

- LEDs, located in demand valve, display pressure, system and alarm status unobtrusively and without work interruption
- Signals delivered through the line to the demand valve and continue to the inside of the mask through light pipes
- Cost intensive electronics are kept out of the mask, which reduces its price and makes cleaning easier
- The entire team has access to top-grade technology, while each firefighter can still maintain his or her own personal mask for added hygiene.



## State of the Art Harness

- Comfortable padding
- Extremely robust cover fabric to withstand repeated exposure to flame and heat (NFPA approved)
- Robust adjustment buckles made from cast steel
- Protection tunnels for lines with reflective features
- Integrated stand-by support for demand valve



## Control Module

- Combined digital and analog pressure reading
- Intuitive interface displays essential information by default allowing the user to concentrate on his job
- Other data is available with a touch of a button







## Low Profile Face Mask

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- Open port technology for free breathing when in stand-by (demand valve not attached)
- Huge field of vision for unobstructed view
- Low profile for less snagging and improved weight distribution
- Independent of electronic options to minimize costs for individual mask ownership and upkeep
- All components easily accessible and interchangeable for easy maintenance and cleaning
- Available in 3 sizes
- Choice of classic rubber or modern fabric harness



## Optional Voice Projection Speaker

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- Integrated microphone picks up voice inside the mask independent of environmental conditions
- High volume and speech intelligibility
- Improves team and training communication

## Central Processing Module

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- Centrally processes all data on the SCBA: motion detection, data distribution to HUD, control module, voice speaker
- Piezo alarm sounders project in all directions
- Built-in RFID reader to log on with personal tag, team assignment or pairing information



### Single Power Supply

- All components powered with a single power supply
- Simplified battery monitoring and exchanging
- Greater system reliability

### Long-Range Radio

- Industry-leading telemetry with proven track record
- Low impact monitoring with high accountability
- Operates with alphaBASE and alphaCONTROL 2

## Advanced Hip Belt Features

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- Swivelling to follow body movement
- Easy to use and robust height adjustment to accommodate different torso lengths





### Buddy Breather 2nd Connection

- Allows connection to fellow firefighter in case of emergency
- Y-piece connector enables donation of air without breaking recipient's air supply
- Allows for easy connection to airline system
- 1.2 m medium pressure line in pouch on hip



### Optional alphaCLICK High Pressure Quick Connect

- Saves 90% of time needed for cylinder exchange
- Built-in flow restrictor prevents uncontrolled flow in case of inadvertent valve opening



### Optional QuickFill Connection

- Direct high pressure connection for fast cylinder refill while donned



- Centralized power supply minimizes power management effort and maximizes system reliability
- Focus on useability under stress and economic efficiency
- Lower cost of system ownership
- Tested against harshest North American and European standards
- Coordinated components with limited interfaces for superior system performance
- Advanced material science
- Next-generation communication
- Ergonomic balance and fit
- Further best in class “safety on demand” options



G1 SCBA System

## Ordering Information

G1 SCBA	
10160443	G1 SCBA with demand valve, telemetry
10160444	G1 SCBA with demand valve, telemetry, alphaCLICK
10160445	G1 SCBA with demand valve, telemetry, alphaCLICK, HUD
10160436	G1 SCBA with demand valve, telemetry, alphaCLICK, HUD, voice amplifier
10160437	G1 SCBA with demand valve, telemetry, HUD
10160438	G1 SCBA with demand valve, telemetry, HUD, voice amplifier

All G1 versions include swivelling and adjustable hip belt, electronic control unit, telemetry module, lung governed demand valve and buddy breather 2nd connection. For other configurations, please contact your local MSA affiliate.

G1 Full Face Mask	
10171035	G1 full face mask, size S, net harness
10171036	G1 full face mask, size M, net harness
10171037	G1 full face mask, size L, net harness
10171038	G1 full face mask, size S, net harness, with neck strap
10171039	G1 full face mask, size M, net harness, with neck strap
10171040	G1 full face mask, size L, net harness, with neck strap
10165414	G1 full face mask, size S, rubber harness
10165415	G1 full face mask, size M, rubber harness
10165416	G1 full face mask, size L, rubber harness

Cylinders	
D5103962	Composite cylinder 6.8 l/300 bar, full, 15 years
D5103979	Composite cylinder 6.8 l/300 bar, empty, 15 years
10113768	Composite cylinder 6.8 l/300 bar, full, 30 year
10118596	Composite cylinder 6.8 l/300 bar, protector, full, 30 years
10111013	Composite cylinder 6.9 l, full, restrictor, transponder, 15 years
10127723	Composite cylinder 9 l/300 bar, empty, 15 years

Accessories	
10144231	APR adapter for G1 mask
10144230	G1 spectacle kit for prescription glasses
10083875	RFID transponder tag for G1
10158407	RFID reader/writer for G1

## Technical Specifications

<b>Approvals</b>	EN 136 EN 137
<b>Antistatic Properties</b>	ATEX II 1G Ex ia IIC T4 Ga -30 °C < TA < 60 °C
<b>Weight (carrier demand valve, mask, w/o cylinder)</b>	4.74 kg
<b>Weight (carrier with all options, demand valve, mask, charged cylinder)</b>	13.9 kg
<b>Cylinder</b>	one, size 6 l to 9 l
<b>Operating Pressure</b>	300 bar
<b>Nominal Operating Temperature</b>	-30 °C to +60 °C



### Your direct contact

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