



### ECS Handheld Gas Analyzer PHGA-1



For use under U.S. Patents  
9,144,700 and 9,186,533

- One touch calibration
- Small, convenient, and portable
- 24 month warranty
- Compatible with all ECS products

#### SPECIFICATIONS

<b>Sensor Type:</b>	Galvanic Cell w/ temperature compensation
<b>Measured range:</b>	0.0% to 99.9% nitrogen
<b>Response time:</b>	< 15 seconds for 90% step change
<b>Accuracy:</b>	± 1.0% of full scale at constant temp, R.H. and pressure
<b>Temperature:</b>	Operating: 15° to 40°C, Storage: -15° to 50°C
<b>Operating Pressure:</b>	Atmospheric pressure to 3 psig
<b>Sample connection:</b>	ECS compatible brass quick connect
<b>Expected Life:</b>	2 years
<b>Expected Storage Life:</b>	2 months; special seal on sensor
<b>Battery Life:</b>	Approximately 1850 hours
<b>Power:</b>	Internal, non-replaceable, Lithium battery
<b>Auto-Off:</b>	80 second time-out
<b>Environmental:</b>	Housing equivalent to NEMA 1; not waterproof
<b>Weight:</b>	2.1 oz (60 grams)

#### Ordering Information

Stock Number: PHGA-1

#### General Description

The ECS Protector Handheld Gas Analyzer (PHGA-1) provides the concentration of nitrogen gas when connected to an ECS product with a gas sample port. The handheld analyzer can be used to verify nitrogen concentration inside a fire sprinkler system or at the outlet of an ECS Nitrogen Generator System. The ECS Protector Handheld Gas Analyzer provides the end user with a simple, cost effective method of gas concentration monitoring.

# OUR PRODUCTS. YOUR SYSTEMS

Solutions for every environment

## DRY PIPE SYSTEM NITROGEN GENERATORS



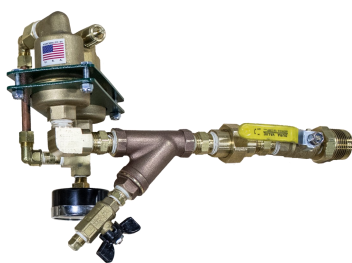
*Corrosion control technology located in the riser room*

	Wall Mount			Skid Mount	Stand Alone w/Separate Air Compressor			
	PGEN-3	PGEN-5	PGEN-10	PGEN-20	PGEN-30	PGEN-40	PGEN-50	PGEN-60
Total System Capacity	675 gal	950 gal	2,000 gal	3,200 gal	6,500 gal	11,000 gal	18,500 gal	22,500 gal
Single System Capacity @ 40 psi <sup>(1)</sup>	215 gal	265 gal	560 gal	950 gal	1,150 gal	1,440 gal	2,025 gal	2,900 gal
Single System Capacity @ 20 psi <sup>(1)</sup>	540 gal	590 gal	1,120 gal	1,800 gal	2,300 gal	2,880 gal	4,050 gal	5,800 gal
Air Compressor	Integral	Integral	Integral	Integral	Separate	Separate	Separate	Separate
Size (H x W x D)	36x24x9	36x24x9	38x29x11	57x32x40	53x24x9 <sup>(2)</sup>	76x24x12 <sup>(2)</sup>	76x24x12 <sup>(2)</sup>	76x24x12 <sup>(2)</sup>
Weight	115 lbs	125 lbs	175 lbs	420 lbs	152 lbs <sup>(2)</sup>	264 lbs <sup>(2)</sup>	300 lbs <sup>(2)</sup>	300 lbs <sup>(2)</sup>

### Notes

- (1) Single system capacity based on 30 min. fill requirement of largest single sprinkler system; a secondary air compressor with normally closed isolation valve can be used to meet fill requirement for larger individual systems
- (2) Size and weight of nitrogen generator only, does not include separate air compressor
- (3) All nitrogen generators include 1 year manufacturer's warranty per ECS terms and conditions

## WET PIPE SYSTEMS



*Automatic air venting and nitrogen corrosion control*



## SERVICES



*Corrosion assessments, pipe analysis, and long term corrosion control programs to mitigate future risk*

## MONITORING SOLUTIONS



*Ensure effective corrosion control with real time corrosion monitoring solutions*