



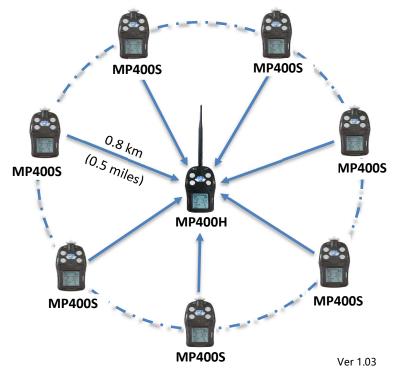
Mobile Wireless Multi-Gas Team Warning System



The mSquad System is a quickly-deployable set of mobile multi-gas meters that communicate wirelessly to a Squad leader up to 0.8 km (0.5 miles) distant. The system is ideal for Hazmat Response, firefighters, temporary venue protection, etc. An mSquad consists of one Head monitor (MP400H) and up to 7 Soldier monitors (MP400S) that communicate with each other. Each 4- or 5-gas monitor has options for a full range of sensors for toxic gases, oxygen (O₂), combustibles (LEL) and carbon dioxide (CO₂). The MP400S can also have a PID for volatile organic compounds (VOCS). In addition to high gas concentration alarms, all Squad units receive any Man-Down alarms to notify them remotely of a worker in distress. All the Squad monitors are Class I Division I certified to operate in hazardous zones. The entire mSquad is mobile, running on batteries for up to 12 hours. The MP400S and MP400H have rugged construction and easy-to-learn 2-button operation.

Features, Functions and Benefits

- Remote, wireless real-time readings and alarms including Man-down
- Up to 8 remote 4- or 5-gas monitors
- Up to 0.8 km (0.5 miles) distance to Squad Head
- All mSquad units alarm if any one unit has an alarm condition
- Mobile system operation
- 12-hour continuous operation on single Li-ion battery charge.
- USB Micro cable for battery charging and direct PC communication
- Wide selection of sensor types



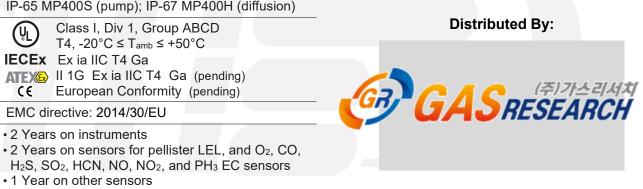
mSCILIAD Specifications

MP400S and MP400H Specifications

WP4005 and	MP400H Specifications	
Size	5.7 x 3.3 x 1.7 in (140 x 84 x 42 mm) w/o Antenna	
Weight	15.5 oz (435 g)	
Sensors	Interchangeable and field-replceable: PID for VOCs (MP400S only), EC for Toxic & O ₂ , Pellistor for LEL, and NDIR for LEL, Vol% & CO ₂	
Response time (t90)	• 15 s (LEL/CO/H ₂ S/O ₂) MP400S • 20 s (LEL/CO/H ₂ S/O ₂) MP400H • Others vary up to 120 s	
Sampling	MP400S - Internal pump; MP400H - Diffusion	
Battery	12 hr (depending on sensors and pump installed)	
Direct Readout	 Real-time reading of gas concentration PID measurement gas and correction factor, Battery status STEL, TWA, peak and minimum values Man-Down alarm on/off 	
Display	128 x 128 graphical LCD, 1.77 x 1.73 in (45 x 44 mm), with LED backlight and auto "flip" screen	
Range	0.8 km (1/2 mile) between MP400H and MP400S	
Frequency	ISM band (902-928 MHz) FCC Part 15 approved	
Calibration	Zero and span calibration. Single or multiple sen- sor simultaneous calibration settings	
Monitors	Up to 8 per mSquad (1 MP400H plus 7 MP400S)	
Alarms	 Audible (95 dB @ 30 cm) Visual (flashing bright red LEDs) Vibration On-screen indication of alarm conditions Man-Down alarm with pre-alarm 	
Wireless Alarm Notification	Alarm on any monitor sent to all others in mSquad for 5 seconds, then remains on at MP400H	
Datalogging	Continuous datalogging (6 months for 4 sensors at 1-minute intervals, 24 hours/day and 7 days/week)	
Direct PC Comm and Charging	USB cable for charging, data download, instrument setup and firmware upgrades on PC or 100-240V AC charger, or CaliCase.	
Temperature	-4° to 122°F (-20° to 50°C)	
Humidity	0% to 95% Relative humidity (non-condensing)	
IP Rating	IP-65 MP400S (pump); IP-67 MP400H (diffusion)	
Safety Certifications	Class I, Div 1, Group ABCD T4, -20°C \leq T _{amb} \leq +50°C IECEX Ex ia IIC T4 Ga II 1G Ex ia IIC T4 Ga (pending) C European Conformity (pending)	
EMC/RFI	EMC directive: 2014/30/EU	
Warranty	 2 Years on instruments 2 Years on sensors for pellister LEL, and O₂, CO, H₂S, SO₂, HCN, NO, NO₂, and PH₃ EC sensors 	

Sensor Options

Sensor Options			
Range R	esolution		
0-2000 ppm	0.1 ppm		
0-30%Vol	0.1%Vol		
0-100%LEL	1%LEL		
0-100%Vol	0.1%Vol		
0-50000 ppm	100 ppm		
0-1000 ppm	1 ppm		
0-100 ppm	0.1 ppm		
0-1000 ppm	1 ppm		
0-500 ppm	1 ppm		
0-200 ppm	0.1 ppm		
0-20 ppm	0.1 ppm		
0-100 ppm	0.1 ppm		
0-100 ppm	1 ppm		
0-50 ppm	0.1 ppm		
0-1 ppm	0.01 ppm		
0-1000 ppm	10 ppm		
0-15 ppm	0.1 ppm		
0-100 ppm	1 ppm		
0-250 ppm	1 ppm		
0-20 ppm	0.1 ppm		
0-20 ppm	0.01 ppm		
0-20 ppm	0.1 ppm		
0-100 ppm	0.1 ppm		
0-10 ppm	0.1 ppm		
	0-2000 ppm 0-30%Vol 0-100%LEL 0-1000 ppm 0-50000 ppm 0-1000 ppm 0-200 ppm 0-100 ppm 0-200 ppm		



* Due to ongoing research and product improvement, specifications are subject to change without notice *