

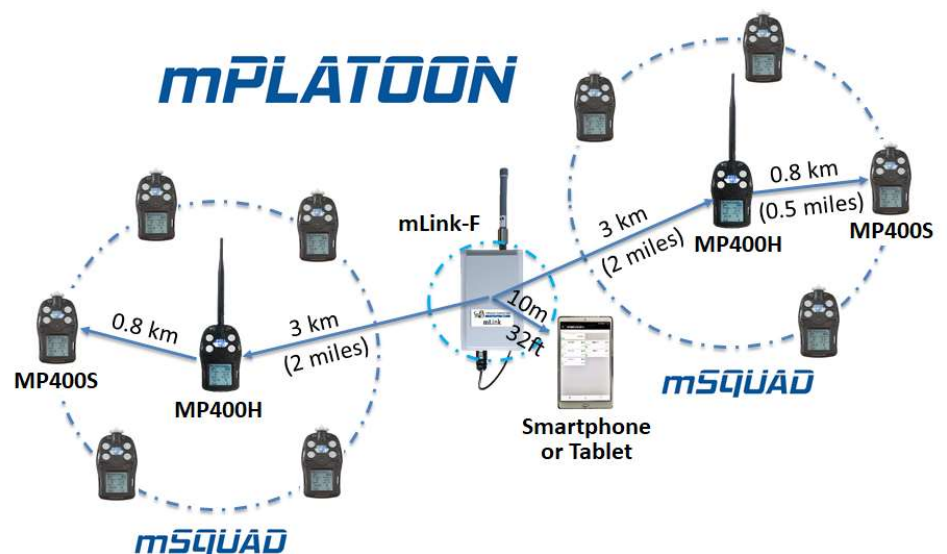
## Mobile Wireless Multi-Gas Team Warning System



The mPlatoon System is a quickly-deployable set of mobile multi-gas meters that communicate wirelessly to a central command station (mLink-F) up to 3 km (2 miles) distant. The system is ideal for Hazmat Response, temporary venue protection, large industrial site activities, etc. The mLink-F connects with up to 8 squads of 8 monitors each, for a total of 64 personnel with gas meters. An mSquad consists of one Head monitor (MP400H) and 3 or 7 Soldier monitors (MP400S) operating within a 0.8-km (1/2-mile) radius. Each 4- or 5-gas monitor has options for a full range of sensors for toxic gases, oxygen (O<sub>2</sub>), combustibles (LEL) and carbon dioxide (CO<sub>2</sub>). In addition to high gas concentration alarms, the Squad Head and central mLink-F modem receive any Man-Down alarms to notify them of a worker in distress. The overall operation is overseen from an Android smartphone or tablet that communicates by wireless BLE to the mLink-F within 10 m (33 ft.). The mLink-F normally runs on 100-240 VAC power and is not intrinsically safe, while all the Squad monitors run on batteries and are Class I Div I certified to operate in hazardous zones. However, the entire Platoon can be mobilized by operating the mLink-F out of a vehicle or utilizing its back-up battery, which runs for up to 18 hours. For smaller operations the mLink-F can be replaced by the lower-cost mLink-P. 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 64 remote 4- or 5-gas monitors in 8 Squads of 8 persons each
- Up to 3 km (2 miles) distance to Squad Head and 800 m within Squad
- Mobile system operation
- 12-hour continuous operation on single Li-ion battery charge.
- USB Micro cable for local charge & communication
- Wide selection of sensor types







# mPLATOON Specifications

## mLink & Platform Specifications

mLink	mLink-F	mLink-P	MP400H
<b>Size w/o Antenna</b>	11 x 6.6 x 3.9 in. 28 x 17 x 10 cm	5.0 x 3.6 x 1.9 in. 13 x 9.1 x 4.7 cm	5.7 x 3.3 x 1.7 in. 14 x 8.4 x 4.2 cm
<b>Weight</b>	31 oz (880 g)	16 oz (450 g)	15.5 oz (435 g)
<b>IP</b>	IP67	IP54	IP67
<b>Temp.</b>	-4° to 131°F -20° to 55°C	-4° to 122°F -20° to 50°C	-4° to 122°F -20° to 50°C
<b>Power Source</b>	100-240V AC w/ Back-up battery	Li-Ion Battery	Li-Ion Battery
<b>Battery</b>	18 hr	24 hr	12 hr
<b>Range</b>	3 km (2 miles)	3 km (2 miles)	0.8 km (1/2 mile)
<b>Monitors</b>	64	32	4 or 8 /mSquad
<b>Certs.</b>	N/A	N/A	C1D1 ABCD T4
<b>Freq.</b>	ISM band (902-928 MHz) FCC Part 15 approved		

## MP400S and MP400H Specifications

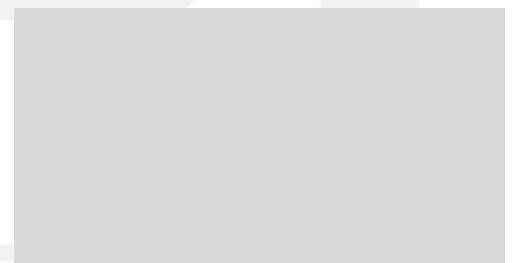
<b>Size</b>	5.7 x 3.3 x 1.7 in (140 x 84 x 42 mm) w/o Antenna
<b>Weight</b>	15.5 oz (435 g)
<b>Sampling</b>	MP400S - Internal pump; MP400H - Diffusion
<b>Battery</b>	12 hr (depends on sensors and pump installed)
<b>Direct Readout</b>	<ul style="list-style-type: none"> <li>• Real-time gas concentrations; Battery status</li> <li>• STEL, TWA, peak and minimum values, and more</li> </ul>
<b>Display</b>	128 x 128 graphical LCD, 1.77 x 1.73 in (45 x 44 mm), with LED backlight for enhanced readability.
<b>Calibration</b>	Zero and span calibration. Single or multiple sensor simultaneous calibration settings
<b>Wireless Comm</b>	Poll gas concentration readings from Software on Android phone or tablet via MP400H and mLink-F
<b>Alarms</b>	Push Notification via MP400H and mLink-F, plus local audible (95 dB @ 30 cm), visual (flashing LEDs), vibration and Man-down alarms
<b>Direct Comm and Charging</b>	USB cable for charging, data download, instrument setup and firmware upgrades on PC or 100-240V AC charger, or CaliCase.
<b>Temperature</b>	-4° to 122°F (-20° to 50°C)
<b>Humidity</b>	0% to 95% Relative humidity (non-condensing)
<b>IP Rating</b>	IP-65 MP400S (pump); IP-67 MP400H (diffusion)
<b>Safety Certifications</b>	 Class I, Div 1, Group ABCD T4, -20°C ≤ T <sub>amb</sub> ≤ +50°C  Ex ia IIC T4 Ga  II 1G Ex ia IIC T4 Ga (pending)  European Conformity (pending)
<b>EMC/RFI</b>	EMC directive: 2014/30/EU

## Sensor Options

<b>Sensor Types</b>	Interchangeable: EC for Toxic and O <sub>2</sub> , Pellistor for LEL, and NDIR for LEL, Vol% and CO <sub>2</sub>
<b>Response time (t90)</b>	<ul style="list-style-type: none"> <li>• 20 s (LEL/CO/H<sub>2</sub>S/O<sub>2</sub>)</li> <li>• Others vary up to 120 s</li> </ul>

Sensor	Range	Resolution
<b>PID</b>	0-2000 ppm	0.1 ppm
<b>Oxygen (O<sub>2</sub>)</b>	0-30%Vol	0.1%Vol
<b>Combustibles (LEL%)</b>	0-100%LEL	1%LEL
<b>Hydrocarbons (Vol%)</b>	0-100%Vol	0.1%Vol
<b>CO<sub>2</sub> (Carbon Dioxide)</b>	0-50000 ppm	100 ppm
<b>CO (Carbon Monoxide)</b>	0-1000 ppm	1 ppm
<b>H<sub>2</sub>S (Hydrogen Sulfide)</b>	0-100 ppm	0.1 ppm
	0-1000 ppm	1 ppm
<b>CO + H<sub>2</sub>S</b>	<b>CO</b> 0-500 ppm	1 ppm
	<b>H<sub>2</sub>S</b> 0-200 ppm	0.1 ppm
<b>SO<sub>2</sub> + H<sub>2</sub>S</b>	<b>SO<sub>2</sub></b> 0-20 ppm	0.1 ppm
	<b>H<sub>2</sub>S</b> 0-100 ppm	0.1 ppm
<b>NH<sub>3</sub> (Ammonia)</b>	0-100 ppm	1 ppm
<b>Cl<sub>2</sub> (Chlorine)</b>	0-50 ppm	0.1 ppm
<b>H<sub>2</sub> (Hydrogen)</b>	0-1000 ppm	10 ppm
<b>HCl (Hydrogen Chloride)</b>	0-15 ppm	0.1 ppm
<b>HCN (Hydrogen Cyanide)</b>	0-100 ppm	1 ppm
<b>NO (Nitric Oxide)</b>	0-250 ppm	1 ppm
<b>NO<sub>2</sub> (Nitrogen Dioxide)</b>	0-20 ppm	0.1 ppm
<b>PH<sub>3</sub> (Phosphine)</b>	0-20 ppm	0.01 ppm
<b>SO<sub>2</sub> (Sulfur Dioxide)</b>	0-20 ppm	0.1 ppm
<b>ETO (Ethylene Oxide)</b>	0-100 ppm	0.1 ppm
<b>CH<sub>3</sub>SH (Methyl Mercaptan)</b>	0-10 ppm	0.1 ppm

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