

LIIONTEK LI-ION TAMER EARLY WARNING SYSTEM

PREVENTION IS KEY IN LI-ION SAFETY



PRODUCT DESCRIPTION

Detect battery failure before thermal runaway begins.
Li-ion Tamer GEN 3 is an advanced early-warning system designed to detect the first signs of lithium-ion battery failure.

By continuously monitoring for battery electrolyte vapours released during off-gassing, the system can identify a failing cell before thermal runaway develops, providing valuable time to respond and protect people, equipment and critical assets.



< 1 PPM/SEC DETECTION
Ultra-sensitive detection of battery electrolyte vapours.



5 SEC RESPONSE TIME
Rapid detection of early battery failure.



CALIBRATION-FREE
Designed for reliable monitoring with minimal maintenance..

WHY EARLY DETECTION?

Lithium-ion battery failures can release electrolyte vapours before thermal runaway occurs. Li-ion Tamer continuously monitors for these off-gassing compounds, providing an early warning so action can be taken before the situation escalates.



Earliest warning
Advanced off-gas detection identifies the early signs of lithium-ion battery failure.



All Li-ion chemistries
Compatible with all lithium-ion battery form factors and chemistries.



Environmental monitoring
Integrated temperature and humidity sensing provides additional situational awareness.



System integration
Relay and Modbus TCP/IP outputs enable integration with BMS and other control systems.

TECHNICAL SPECIFICATIONS

Specification	LI-ion Tamer GEN 3
Target gases	Lithium-ion battery electrolyte solvent vapours
Detection threshold	< 1 ppm/sec
Response time	5 seconds
Fault detection	Single cell failure
Calibration	Calibration-free
Temperature measurement	-40 to 125°C
Temperature accuracy	±0.4°C from 5 to 60°C
Humidity measurement	0 to 100% RH, non-condensing
Humidity accuracy	±2.0% RH from 20 to 80% RH
Max. sensors per controller	100
Connectivity	TCP/IP Ethernet / Modbus
Controller input	12 VDC
Target lifetime	>10 years

A scalable system designed to protect lithium-ion battery installations of any size



LT G2+ sensor H2



Li-ion Tamer Gen 3 Hub



Li-ion Tamer Gen 3

PREVENTION IS KEY

The earlier you detect battery failure, the more time you have to act. Li-ion Tamer detects off-gassing at cell level, providing an early warning before a developing failure can escalate into thermal runaway.



EARLY WARNING
Detect emerging battery failure before thermal runaway..



LOWER MAINTENANCE
Calibration-free sensing helps reduce ongoing maintenance requirements.



SCALABLE PROTECTION
From individual battery installations to large, multi-zone systems with up to 100 sensors per controller.



Get in Touch With Our Specialists

Request technical specifications, integration guidance, or a tailored quotation for your project. Our team is ready to support you with expert advice.

LIIONTEK

Jan Duikerweg 9D
1703DH Heerhugowaard
The Netherlands

E info@liiontek.com
T +31 72 792 03 46
W liiontek.com