



# Cyber Secure MPS

## MANHOLE PROTECTION SYSTEM

Helps Protect Critical Infrastructures from Unauthorized Access, Copper Theft and Vandalism in Real-Time



**The CyberSecure MPS™ Manhole Protection System uses zero-power, state of the art fiber optic sensors and leverages the reliability and security of the only government certified infrastructure monitoring system (CyberSecure IMS) to secure commercial and government critical infrastructure pathways.**



The CyberSecure MPS™ (Manhole Protection System) from CyberSecure IPS™ addresses underground critical infrastructure pathway vulnerabilities by providing 24/7/365 intrusion detection monitoring of manholes, handholes and communication junction sites using zero-power fiber optic sensors. The CyberSecure MPS™ system continuously monitors the position of manhole covers and immediately reports a change at any cover. Thousands of covers may be monitored simultaneously and every cover is individually identified.

Each sensor has a unique identifier which alerts the dispatcher to the exact manhole location via CyberSecure IMS™ when an intrusion attempt occurs. Any attempt to access underground communication systems through a manhole on which a sensor has been installed, will initiate an immediate focused response by security or law enforcement personnel. Each zero-power, fiber optic sensor is strategically mounted at locations in and around critical infrastructure pathways and connected using commercial-off-the-shelf (COTS)

single-mode-fiber (SMF). The zero-power, fiber optic sensors are continuously monitored by the CyberSecure MPS™ Controller. When a manhole lid is lifted the sensor immediately notifies the CyberSecure MPS™ controller in real-time. All components of the CyberSecure MPS™ solution are managed by CyberSecure IMS. CyberSecure IMS™ is a U.S. Government certified alarm dispatch management software application designed explicitly to manage the protection of classified communication networks. CyberSecure IMS™ offers comprehensive monitoring of all manholes and handholes with integrated geospatial mapping, pinpoint location detection of alarmed manholes, real-time alarm notification via phone, text, email and seamlessly integrates into customizable site specific alarm management systems.

The end-to-end CyberSecure MPS™ solution can save customers millions of dollars every year by protecting critical infrastructures from unauthorized access, copper theft and vandalism.





## Meeting the Demand for Highly Scalable, Cost Effective Manhole Intrusion Detection Systems to Protect Against Unauthorized Access



### CyberSecure IMS™ Solution Overview

The CyberSecure IMS™ server manages the status of thousands of manholes simultaneously and provides a real-time status of each sensor. When a sensor is triggered CyberSecure IMS™ creates a case, notifies the first response team and clearly identifies the exact location of the intrusion using geospatial mapping.



### CyberSecure MPS-S Sensor Solution Overview

CyberSecure MPS™ sensors use light to sense position. CyberSecure MPS™ sensors contain no electronic components, require no electrical power, and radiate no signals. Due to their optical design, each sensor is inherently immune to electromagnetic interference with an operating temperature range of -40° to +80°C and an operating life of one million cycles.



### CyberSecure MPS™ Controller Solution Overview

The CyberSecure MPS™ Controller connects the sensors using SMF-z8 fiber. The CyberSecure™ controllers come in 4-Channel (120+ Sensors), 8-Channel (250+ sensors) and 16-Channel (500+ sensors) models and has an operating temperature range of -20° to +60°C. The controller communicates with CyberSecure IMS™ via standard Ethernet.



### CyberSecure IPS™ Lifecycle Services & Support

CyberSecure IPS™ realizes the importance of post deployment support when protecting the United States' critical infrastructure assets. We offer OEM certified support and training services to ensure each project is successful for the long term.