# Tamper Alert

Detects, Localizes, and Notifies of Tampering, Climbing, Cutting, or Digging on or Around Your Security Fence

Tamper Alert is an all fiber optic monitoring system specially designed for metal security fences. A highly sensitive, yet unobtrusive fiber optic microphonic sensing cable immediately detects and localizes any disturbance to the fence caused by climbing, cutting, or tampering. The system consists of rugged, low cost all–optical sensor cables, passive sensing nodes that delineate each detection zone, and a central processor unit. A single central processor unit can monitor up to 8 individual zones, and each individual zone can be up to 500 meters in length. The individual remote sensing nodes can be mounted on the inside of the fence, mounted on a separate post, or buried. The Tamper Alert system is all–optical, the cable and remote sensing nodes contain no electronics and therefore the system is not affected by electromagnetic or radio frequency interference, rain, lightning, heat or cold. The rugged, outdoor–rated fiber optic sensor cable serves as both the sensor as well as the signal path back to the control center. The Tamper Alert system is designed for chain link, welded wire, or rigid security fences.

The cable is attached to the fence with UV–rated nylon cable ties. The cable can also be buried in a trench to detect activity such as walking or digging. Up to 8 Remote Sensor Nodes can be daisy–chained together to create 8 separate detection zones. The Central Processor Unit is housed in a 19–inch rack mountable chassis. Its fully–automated, rapid setup routine executes upon startup without the need for manual input. Simply plug in the all–optical sensor cable and the system configures itself. A continuous built–in monitoring process guarantees the highest accuracy without the need for periodic calibration. The Central Processor Unit supports multiple output data formats including RS422, RS232, and USB and includes PC–based application software and an API for rapid integration to existing display/monitoring systems.

Fiber Optic Sensor Cable

To Display

Central Processor Unit (Guard Station)

Passive Remote Sensor Node
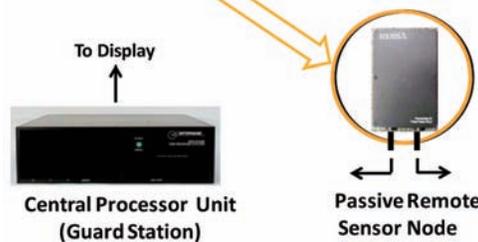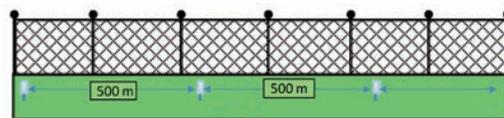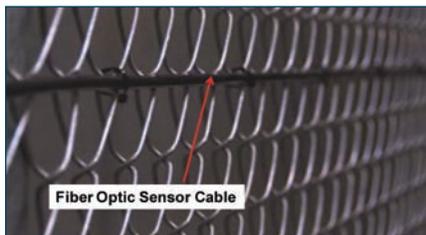
Parameter	Units	Value	Comments
Zone Length	meters	100-500	Determined by Customer
Maximum Sensor Nodes per Central Processor Unit		8	
Minimum Event Resolution		1 per zone	
System Noise Floor	dB:µPa	75	
Total Harmonic Distortion	%	<1.0	
Maximum Data Rate	Hz	2000	
Data Interface Type		RS232/422/USB	
Input Voltage	VAC	120	
Operating Temperature (Cable)	˚C	-40 to +7 0	
Operating Temperature (Remote Optical Junction Box)	˚C	-40 to +70	
Operating Temperature (Central Processor Unit)	˚C	0 to +50	
Optical Connector Type		FC/APC	
Cable Break Strength	Lbs.	>350	Higher strengths available
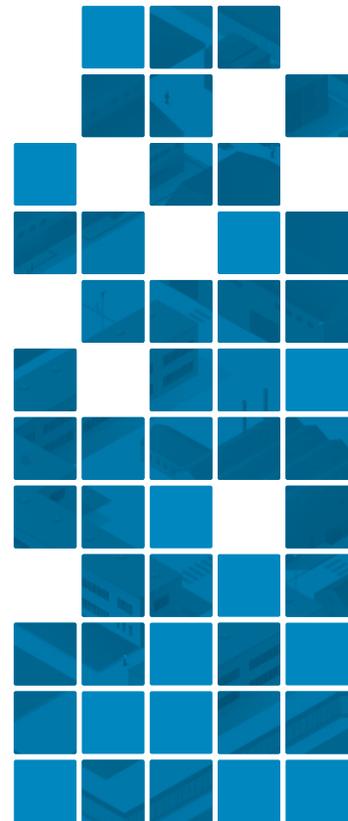
Highlighted Features

- 100% Optic Fiber Monitoring
- Maintenance Free Sensor Cable
- 8 Individual Zones per 500 meters
- Remote Sensing Nodes Can be Mounted on the Inside of the Fence, Mounted on a Separate Post, or Buried
- Supports RS422, RS232, USB
- Plug-n-Play Self Configuration
- PC Based Software Application
- API for Rapid Integration
- No Periodic Calibration Needed
- Not Affected by Electromagnetic or Radio Frequency Interference, Rain, Lightning, Heat or Cold

PCSC