

3D MEMS FENCE SENSOR SYSTEM

SHIUX MEMS PRO2

1500 m

NEW



80
ZONES



FUZZY LOGIC
INSIDE



REDUNDANCY



IP-READY PoE



PIN POINT
LOCATION 1M



6 YEAR WARRANTY

100%
screwless

NEW RIGID AND MESH FENCE INTRUSION DETECTION SYSTEM



EXTREME SECURITY

SINCE 1974

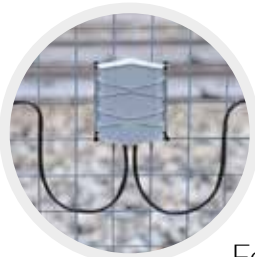
V 1.0



SIOUX MEMS PRO2 1500 m

SIOUX PRO2 is the brand-new version of CIAS' fence-mounted intrusion detection system for perimeter protection which since 2012 has been installed with great results on many sites, always with high-security requirements and specifications. The Sioux system has also been awarded numerous prestigious prizes. The system, which detects fence cutting, climbing and displacement, comprises up to 140 MEMS sensors, sensitive on all three spatial axes, for each of two branches monitored by the central controller. These sensors are clustered in groups of 7, with each cluster made by 1 master-sensor and 6 slave-sensors. Each Master sensor receives by its Slave sensors the electrical signal relevant to the detected vibration on the fence, digitalizes and transmits it to the Controller Unit. Via Sioux-Test Pro, or via Relays with the innovative Touch&Zone function, the 280 MEMS sensors in the array can be divided into up to 80 alarm zones.

HIGHLIGHTS NEW



For any
 fence type

Double gasket

No fixing screws

Fixing with ties



Special
 bracket

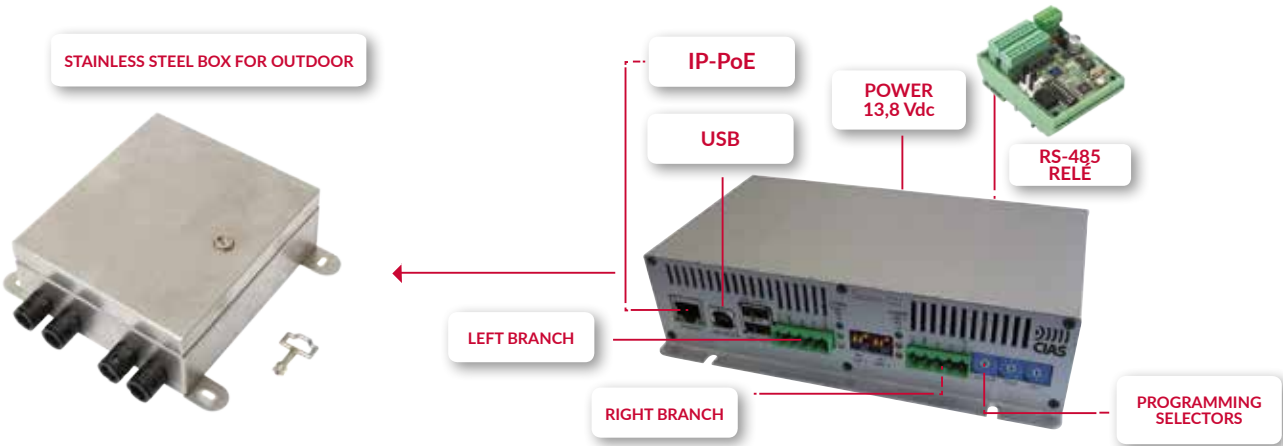
IP grade: IP66

Anti-removal inclinometric
 embedded tool

Extra accessory: special
 anti-removal bracket



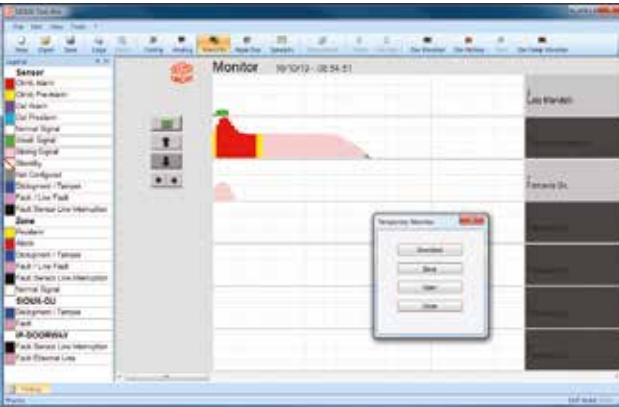
SIOUX-CONTROLLER PRO2



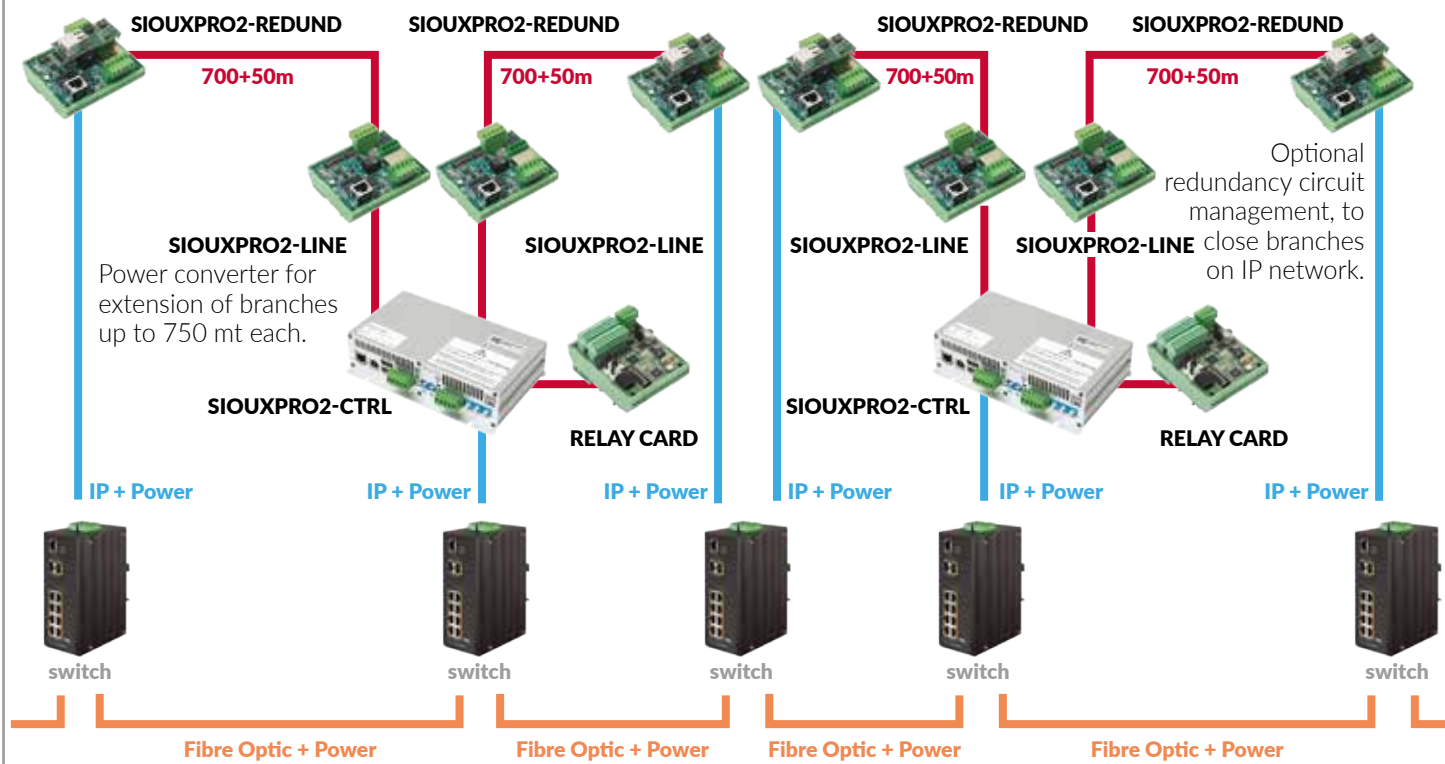
REDUNDANCY AND LINE INSULATORS

The new release of **SIOUX PRO** introduces a very important feature: cable cut-immunity. This capability insures that each branch of the Sioux sensor array remains fully functional even if the connection cable between sensors is cut in one location. This feature is of utmost importance in very high-risk sites. It is implemented by putting a special module at the end of each of the 2 MEMS sensor branches to provide connectivity to the TCP/IP network. Moreover, up to 19 isolators can be added per each branch, to make it short-circuit proof in case of cutting of the communication cable.

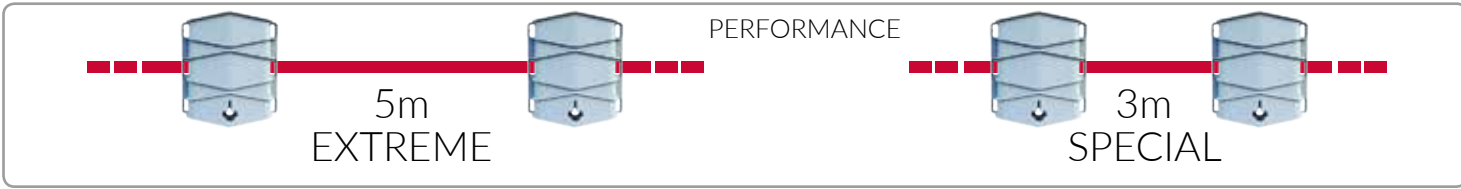
SIOUX
 SELF
 HEALING
 RING



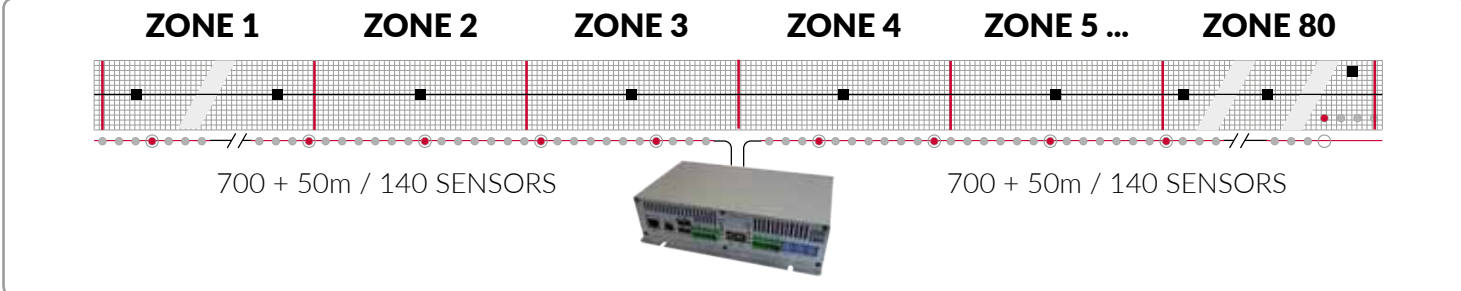
REDUNDANCY CONFIGURATION



SENSORS INTERAXLE SPACING



SYSTEM DETAIL



SPECIFICATIONS

SENSOR TYPE	MEMS ACCELEROMETER
DETECTION	CLIMBING, CUT AND FENCE DISPLACEMENT WITH ADJUSTABLE INCLINATION
COVERAGE	UP TO 1400 + 100m WITH A SINGLE CONTROL UNIT
POWER SUPPLY	13,8 Vdc OR PoE CLASS III (POWER OVER ETHERNET IEEE802.3af)
NUMBER OF ZONES	UP TO 80 ZONES PER PROCESSOR UNIT
ZONE LENGTH	EASILY DEFINABLE USING PC-BASED CONFIGURATION SOFTWARE OR SIMPLE TOUCH & ZONE™
PROBABILITY OF DETECTION (POD)	98%
FALSE ALARM RATE	(FAR) : 8/1500m/YEAR
DETECTION HEIGHT	UP TO 6m
CONSUMPTION	10W AT 13,8Vdc – 10W WITH PoE
IP GRADE	IP66
TEMPERATURE	-40°C TO +70°C
FENCE TYPES	CHAIN-LINK, WELDED MESH, RIGID FENCE
CONFIGURATION AND CALIBRATION SOFTWARE	SIOUX-TEST PRO FOR LOCAL OR REMOTE MANAGEMENT
WARRANTY	6 YEARS
SPECIAL OUTPUTS	RS 485 AND ETHERNET FOR IB-SYSTEM IP
RELAYS OUTPUTS	UP TO 80 DRY RELAY CONTACTS ON RS-485 ALARM / TAMPER / FAILURE / PRE-ALARM / NO ANSWER
MTBF (MEAN TIME BEFORE FAILURE)	UP TO 150.000 HOURS
MTTR (MEAN TIME TO REPAIR)	5 MINUTES
MEMORY	EVENT LOGS UP TO 10 YEARS
SENSOR'S DIMENSION AND COLOR	117MM X 131MM X 50MM / RAL 7040
SPECIAL BRACKET	SPECIAL BRACKET WITH ANTI-DISPLACEMENT ELECTRONIC TOOL
SDK AVAILABLE FOR FULL INTEGRATION WITH THIRD PARTY SYSTEMS (PROVIDED WITH PINPOINT OF ALARM WITH 1 METER RESOLUTION)	

INTEGRATED WITH:



milestone
The open platform company

S2 SECURITY



CIAS RESERVES THE RIGHT TO CHANGE THE SPECIFICATIONS DESCRIBED IN THIS BROCHURE AT ANY TIME WITHOUT PRIOR NOTICE.

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