INTREPID^M MicroTrack^M II BURIED CABLE INTRUSION DETECTION SYSTEM





INTREPID[™] MicroTrack[™] II is the new-generation of Southwest Microwave's field-proven buried cable intrusion detection system for applications where covert perimeter protection is essential. It is a volumetric, terrain-following sensor that reliably detects and precisely locates walking, running or crawling intruders along a facility's perimeter. MicroTrack[™] II incorporates enhanced digital signal processing for even higher detection performance in challenging site conditions.

With a coverage range of 400 meters (1312 ft) per processor, the system consists of a MicroTrackTM II processor unit and two sensor cable pairs that may be buried along a facility's perimeter in soil, asphalt or concrete. A detection field is created around the sensor cable pair, enabling the detection of intrusions.

MicroTrack[™] II is the industry's highest performing buried cable sensor, designed to fully adapt to its installed environment, setting new standards for performance by providing covert, terrain-following detection that is uniform along a site's perimeter. It pinpoints the location of perimeter disturbances using a target's spatial and time signatures to discriminate legitimate intrusions from harmless disturbances caused by small animals or environmental factors such as wind, rain or snow. The system's high signal-to-noise ratio and precise target location produce superior probability of detection and a very low false/nuisance alarm rate (FAR/NAR).

With MicroTrack[™] II, detection zones are set in software, to cost-effectively tailor zoning to suit a site's unique requirements.

As part of the new-generation INTREPID[™] family, MicroTrack[™] II networks seamlessly with the MicroPoint[™] II and MicroNet[™] II Fence Detection Systems and MicroWave 330 Digital Microwave Link, using a common, open-architecture communications protocol.

KEY FEATURES

- SINGLE PLATFORM NETWORKING CAPABILITIES
- INTRUSION LOCATION TO 3 M (10 FT)
- ADVANCED DIGITAL SIGNAL PROCESSING (DSP)
- TERRAIN FOLLOWING CAPABILITY
- SITE-ADAPTIVE SENSITIVITY LEVELING™
- SOFTWARE-CONTROLLED ZONING
- UNIFORM DETECTION ALONG COVERAGE AREA
- FOUR SYSTEM CONTROLLER OPTIONS PLUS AVAILABLE SDK



MicroTrack[™] II detection field dimensions





MICROTRACK™ II PROCESSOR (MTP II)

The MTPII provides electronic processing for up to two 200 m (656 ft) sensor cable sets for a total perimeter length of 400 m (1312 ft). The MTPII is packaged in a black metal EMI/ RFI housing which is installed in a weather-tight enclosure for outdoor use. MTPII can communicate with all INTREPID™ Polling Protocol II devices using RS422 serial data interface and use any INTREPID[™] System Controller* for command and control.

Size: 337 H x 216 W x 102 D mm (13.25 H x 8.5 W x 4 D in) Weight: 2.5 kg (5.5 lbs)

Operating Temperature: -40°C to +70°C (-40°F to +159°F) Power: 10.5 to 60 VDC @ 11 Watts Current Draw: 12v @ 925 mA, 24v @ 465 mA , 48v @ 245 mA Inputs: 2 MicroTrack[™] II Cable Pairs (A and B), External

Tamper Switch Input Ports: RS232 (1), RS422 (2)

Enclosure Options: NEMA 4, NEMA 4X

UNIVERSAL INSTALLATION SERVICE TOOL II (UIST II)

Universal installation service software configures INTREPID™ MicroTrack[™] with laptop convenience at each module via RS232 connection. Sensor autodiscovery, guided navigation and forward propagation simplify set-up and calibration. Configuration security allows lockdown of device settings, ensuring implimentation of approved changes only. Remotely adjust via TCP/IP** connection, even when the system is operational.

* See INTREPID[™] System Controllers data sheet and Configuration Diagrams for complete specifications.

** Requires CM II, GCM II controllers

MICROTRACK™ TERMINATION KIT (MTT)

The MTT kit terminates the detection field at the end of a sensor cable. Two kits are required per sensor cable pair.

MICROTRACK™ IN-LINE TERMINATION KIT (MTI)

The MTI kit terminates the detection field between two sensor cable pairs. Two kits are required per sensor cable pair.

INTREPID[™] SYSTEM CONTROLLERS

Four system control options, optional I/O modules and available SDK offer scalable security management solutions for virtually any site parameters*.

MICROTRACK[™] SENSOR CABLE ASSEMBLIES (MTC400-110, MTC400-210)

An MTC400 sensor cable assembly consists of a sensor cable, factory-spliced with 20 m (66 ft) of lead-in cable.[†] MicroTrack™ II sensor cable assemblies are available in two detection lengths: 110 m (361 ft) MTC400-110, and 210 m (689 ft) MTC400-210. (5 m of each sensor cable pair are overlapped to provide for detection field startup.)

Size: 10.3 mm (0.405 in) diameter

Jacket: Heavy duty polyethylene with water-proofing compound **Operating Temperature:** -40°C to +70°C (-40°F to +159°F) Packaged Size: 110 m (361 ft), 210 m (689 ft) Packaged Weight (on reel): 20.4 kg (45 lbs), 34 kg (75 lbs) Reel: 27.9 W x 60.9 D cm (11 W x 24 D in)

[†] Ferrites and TNC connector are factory-installed

FC CE Specifications subject to change without notice. INTREPID[™], MicroTrack[™], MicroPoint[™], MicroNet[™] and Sensitivity Leveling[™] are trademarks of Southwest Microwave, Inc.





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