

# NP3-168-BLK

## Nugget Phase 3, 153 to 176MHz, Black

### Overview:

DTC's Nugget Phase 3 Remote Ground Sensor is a fully portable surveillance system capable of detection via internal and/or external sensors.

A Nugget network is composed of up to sixteen nodes which mesh together to transmit alarm messages to a receiving node, which is typically connected to a device running DTC's Mission Commander software interface to monitor the alarms and status of the system.

External sensors can be added to the two front panel NUGBUS connectors to increase the detection capabilities of the device. The NUGBUS is capable of supporting up to sixteen external sensors when the NP3-HUB accessory is connected.

The NP3 Nugget system is ideal for covert surveillance, providing indication of activity within range of any of its deployed sensors. The nodes can be configured for operational requirements before deployment and configuration of individual units can then be changed over the wireless network to cater for changes in detection circumstances, such as varying the sensitivity of sensors.



### Product Information:

#### Product Includes

AP001479	Magnet 5mm (L) x 5mm (dia) silver
AP001712	Nylon monofilament thread 30 denier
AP009059	1/4 wave tilt & swivel antenna TNC
AP009123	Miniature mag-mount GPS antenna SMA
MW0417	Nugget ground spike

#### Accessory Options (sold separately)

CA3469	Destination Nugget comms cable
CA3470	External power cable
CA3179	Sensor extension cable, 1m
CA0510	Sensor extension cable, 2m
CA3180	Sensor extension cable, 5m
NP3-RGSIF-COTS	COTS sensor interface cable for use with:
AP007851	PIR sensor
CA2480	Small pressure pad sensor
NP3-COTS-PP	Large pressure pad sensor
NP3-COTS-MB	Make/break sensor
NP3-COTS-PS	Proximity sensor
NP3-COTS-RS	Reed switch sensor
NP3-COTS-TILT	Tilt sensor
NP3-GEO	Geophone sensor (black)
NP3-RGSIF-LRPIR	Long range PIR interface cable for use with:
NP3-LRPIR	Long range PIR
NP3-RGSIF-MAG	Mag sensor interface cable for use with:
NP3-MAG	Magnetic sensor
NP3-PIR	Mini PIR sensor including ground spike
NP3-HUB	NUGBUS external hub
NUGSENSW	Nugget external switched output interface

#### Related Documents

100241	Nugget Phase 3 User Guide
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### Features and Benefits:

Multi-hop mesh capability

Re-configurable transceiver frequency within the band

Internal sensors (tamper, geophone, make/break)

Wireless sensor receiver

Internal GPS receiver

External interface capable of adding up to sixteen further sensors

Weatherproof housing compliant to IP67

Up to sixteen nodes on a single frequency

Quick to deploy

Up to ninety days operation from two lithium D cell batteries

Optional external 12V operation

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### Technical Specification:

#### IO

Peripheral power and USB RS232 comms	8-way Fischer 103 Series
External sensor NUGBUS	7-way Fischer 102 Series x 2

#### RF

VHF antenna connector	TNC 50Ω (female)
VHF power	10 mW / 35 mW / 100 mW / 150 mW configurable
VHF receiver sensitivity	<-120dBm
GPS antenna input	SMA 50Ω (female)
Wireless sensor receiver antenna connector	Lemo 00 coaxial (female)
Wireless sensor receiver sensitivity	<-115dBm

#### Frequencies

153-176MHz	25kHz channel spacing 41 available channels
433.5MHz	Wireless sensor receiver channel A
434.5MHz	Wireless sensor receiver channel B

#### Geophone (Seismic) Sensor

Range (typical)	10-20m
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#### Tripwire Sensor

Format	30 denier monofilament nylon thread
Termination	Cylindrical 5x5mm magnet

#### Power

Batteries	Primary 3.7V LiSOCl2 (Saft LSH20) x 2
Peripheral DC input	8-16V reverse polarity protected
NUGBUS DC input	4.5-5.5V (5V nom) reverse polarity protected Low voltage cut-off @ 2.625V
Power consumption	0.02W (sensor mode) 0.2W (network mode) 0.5W (@ max Tx power 150mW)
Endurance	90 days max with 2 x Saft LSH20 batteries in sensor mode

#### Environmental

Temperature range	-20°C to +50°C (operating)
Sealing	IP67

#### Physical

Dimensions	180mm (L), 92mm (W), 40mm (D)
Weight	950g (no batteries) 1130g (with batteries)

Export of encrypted products is subject to United Kingdom regulatory export controls.

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