

Detect GSM phones with the ...

GSM MOBILE PHONE DETECTOR

**DATA
SHEET**

The GSM mobile phone detector is especially suitable for use by security personnel in Government establishments, military bases, prisons, in commercial applications such as banking, dealing rooms and for security companies who need to sweep premises for concealed surveillance devices.

FEATURES

- Detects the presence of active GSM phones
- Quad-band operation
- Multiple range settings from 1 meter to 200 meters
- Signal strength indication on multi-coloured bargraph display
- Cadenced vibrator for covert operation
- Enhanced signal processing and detection algorithms
- Small size: 85 x 46 x 16mm (length x width x depth)



■ GSM184

■ GSM185 & GSM186/CPD186

GSM184

These products are designed as 'mousetrap' surveillance units. The device is sold separately but is also supplied as part of the Winkelmann MicroScan MS300 Countersurveillance Receiver. The user selects one of the three scan ranges and then leaves the unit in a suitable location. Any detected GSM activity latches one of the two alarm indicators - NET (for network or SMS transmissions) and Call for voice calls. These indicators continue to flash until reset.

*Ideal for security firms wanting to scan rooms for dormant GSM based surveillance equipment.

GSM185 & GSM186/CPD186

These are designed as handheld detection units. Carried by security officers in prisons, government and military establishments, they warn of any GSM activity within range. Warnings are given by an internal vibrator and by the signal strength indicator on the front. The signal strength indicator combined with the cadenced vibrator can guide the user to the source of the transmissions.

*Applications for this product are Prisons, Government and Military security staff.

TECHNICAL SPECIFICATION

■ Frequency Bands

GSM184/GSM185/GSM186

GSM900 & GSM1800 (Europe),
GSM850 & GSM1900 (USA & Canada)

CPD185/CPD186

Analog(AMPS), IS-95(CDMA), IS-136
(D-AMPS/TDMA), Motorola Iden systems
(both Connect and Dispatch), GSM850,
GSM900, GSM1800 and GSM1900

■ Detection Method

Pulse envelope demodulation with
Digital Signal Processing. Unique
algorithms prevent false alarms and
allow strong signals to be picked up
and weaker signals suppressed

■ Battery Life

Typically 50 hours of operation
(GSM184 Typically 80 hours operation)

■ Auto Power Off

The unit automatically powers itself off
after 12 hours (GSM184 switch provided
to disable auto power-off)

■ LED Indications

Bargraph

The 5 segment bar graph indicates the
presence of a mobile phone and the
approximate range to the source of the
transmissions. The segments are colour
coded for easy identification in low light
situations. GSM184 Call Alarm - During
the detection of an active GSM call, this
LED will flash rapidly. Once the call has
finished, the LED will continue to flash
slowly until it is reset by pressing
the switch. Network Alarm - During the
detection of any network transmission
(registration, call set-up, or SMS message)
this LED will flash rapidly. Once the
transmission has stopped, the LED will
flash slowly until it is reset

Low Battery

Indicates that battery voltage is low
and that the batteries should be replaced

■ Dimensions

85 x 46 x 16mm
(Length x width x depth)

■ Weight

59 grams (including batteries)

■ Battery

2 x 'N' cells (alkaline)

■ Material

ABS

■ Detection Ranges **GSM184** Sensitivity Settings

Front panel indication	Range (see note)	
	Sw2 = ON (high)	Sw2 = OFF (low)
High	200 metres	20 metres
Medium	50 metres	10 metres
Low	20 metres	5 metres

Note: all ranges are quoted for GSM900 network transmissions.

■ Detection Ranges **GSM185** Sensitivity Settings and Location Resolution

Sensitivity	Switch 2	Max Range	Resolution	Mode
High	don't care	200 metres	20 metres	Scan
Medium	OFF	45 metres	4.5 metres	Search
Medium	ON	30 metres	3.5 metres	Meeting Minder Search
Low	OFF	15 metres	1.5 metres	Search

Note: all ranges are quoted for GSM900 Network transmissions.

On/Reset Switch **GSM185**

- While the unit is turned off, a single press will **turn it on**.
- To change the **range setting** at any time, press and hold the button down for at least a second. First the current "**sensitivity**" LED will flash, then the next in sequence, and so on. Release the button to select the range which is being indicated. Repeat as required.
- If the **vibrator** has been activated, it can be temporarily silenced by a single press. The next alarm will automatically re-enable it.
- To turn the unit **off**, press and hold the switch. The GSM185 will cycle through its range-setting sequence; if this returns to its beginning while the switch is still being held down, the device will switch off.

On/Reset Switch **GSM184**

- While the unit is turned off, a single press will activate it.
- If any alarm condition is showing, it can be cleared by a single press. (If that alarm is still current, it will immediately be shown again.)
- To change the range setting at any time, press and hold the button down for at least a second. First the current "sensitivity" LED will flash, then the next in sequence, and so on. Release the button to select the range which is being indicated. Repeat as needed.
- To switch the unit off, press and hold the switch. The GSM184 will cycle through its range-setting sequence; if this returns to its beginning while the switch is still being held down, the device will switch off.

■ Internal Switches **GSM184**

DIP switches on the circuit board allow the user to select the following:

Switch1: auto power-off	Function
ON	Enable auto power-off (12 hours)
OFF	Disable auto power-off

Switch 2: sensitivity settings	Function
ON	Use the high sensitivity settings
OFF	Use the low sensitivity settings

■ Internal Switches **GSM185**

DIP switches on the circuit board allow the user to select the following:

Switch1:	Function
ON	Enable RF detection (on high range mode only)
OFF	Disable RF detection

Switch 2:	Function
ON	Enable Meeting Minder mode
OFF	Enable scan or search modes