Wanderer

GSM Monitoring System

Security, Control, Measurement and Analysis Applications Providing Full Signalling to Monitoring Centres and SMS to Mobile Phones

CASTLE care-tech

Award Winning Technology that takes care of itself

Wanderer

GSM Monitoring System

Applications

Industrial Monitoring

- Security Application for buildings with no mains supply or PSTN line and where a conventional alarm system is not an option.
- Industrial plant and machinery monitoring, signalling faults and other information to engineers.
- Vending Machine alarm, automatic stocking and servicing.
- Commercial vehicles and containers.
- Garage Forecourt vehicle stock.
- Construction site security.

Remote Site Security

- Security applications for buildings with no mains electricity supply and/or PSTN line.
- Farm Security. Protection of short-term seasonal risks, e.g. Christmas poultry, short term plant, etc.
- Garden Centres and Nurseries.
- Construction plant on site.
- Temporary roadways and tracks.
- Railway rolling stock.

Residential Security

- Caravans in storage.
- Mobile homes.
- Holiday homes where services are shut down out of season.
- Outbuildings.
- Sheds.
- Garages.
- Stores.

Marine Security

- Marine, estuary and river applications where security is an issue for boats that are moored up over winter.
- Remote monitoring for water leaks, gas.
- Motor Launches.
- Sailing Yachts.
- Commercial Motor vessels.

Choose Wanderer for all your remote security,

Wanderer

GSM Monitoring System

Frequently asked questions

How does Wanderer work?

Wanderer is an alarm/monitoring system with 16 inputs. On activation of an input Wanderer can activate a siren, switch an output to initiate a sampling sequence, send the results via an SMS text message to any GSM mobile handset anywhere in the world, as well as sending digital signals to a monitoring centre (ARC).

Why choose a Wanderer?

Wanderer is the ideal solution when monitoring or security is required where there is no PSTN line, and perhaps no mains voltage supply either.

The Wanderer has super-low-power control electronics and can be set up to work for many months on battery only.

The Wanderer has a built in GSM data sending modem. This requires a SIM card like all GSM mobile telephones.

Which SIM card does the Wanderer need?

The Wanderer can use any SIM card. In the UK, this could be Orange, Cellnet, Vodafone, One2One, Virgin, etc.

Conventional tariffed SIM cards or even the "Pay as you Go" type SIM cards will work. NOTE: The ideal SIM card is a "multi network resilient" type. This SIM card will hunt for and log on to the strongest GSM signal thereby enabling Wanderer to be used in the widest of possible geographical locations.

What inputs and outputs can Wanderer use?

Wanderer has 16 inputs, 8 of which are hard wired loops and the remaining 8 are Wireless "zones".

The 8 hard wired loops can accept switches, alarm detection devices, outputs from other items of industrial equipment, etc. These are analogue inputs which can be used to measure temperature, humidity, liquid levels, voltage levels, etc.

Castle Care-Tech provide a range of Wireless detection devices, such as PIR movement detectors and smoke detectors, plus many more.

In addition two outputs may be switched on/off by a command from your mobile phone or in a programmable sampling sequence for your application.

How long do the batteries last?

A Wanderer has 2 modes, Normal or Power Saving.
In Power Saving mode with 2 x batteries (12V 7Ah), Wanderer can be set up to last 80 weeks. (Dependent on the current being drawn by wired detectors and how many transmissions are sent).

How many SMS text messages can Wanderer send?

Wanderer can send 20 different messages of up to 160 characters in length to a total of 4 different GSM mobile telephones.

A typical message would include the date, time, site name, and actual message.

By sending an SMS message to Wanderer, it can reply with full details of its status.

How does a Monitoring Centre (ARC) work?

Wanderer can send a digital signal via the GSM network to a monitoring centre (ARC). The monitoring centre then takes appropriate action - for example, call engineer, call guard, call the police.

What are the running costs?

The cost of sending an SMS text message costs the same as any normal GSM mobile telephone. (In the UK this is approx 8 to 12p per message).

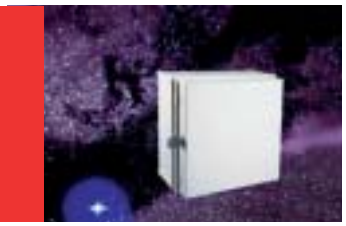
Product Range & Specification

Standard Wanderer

- 1.2mm steel housing (grey powder coat finish). W250 x H320 x D90mm
- On/off key-switch.
- Integral PSU (13.6V DC 0.75Amp regulated)
- Provision for 12V 7Ah rechargeable lead acid battery.
- Integral Sounder (115dB @ 1metre)

Marine Wanderer

- IP65 Polycarbonate housing. W230 x H300 x D110mm
- On/off key-switch.
- No PSU. Requires 12V supply input.
- No integral sounder. Output provided.
- Provision for 12V 7Ah rechargeable lead acid battery.



Industrial Wanderer

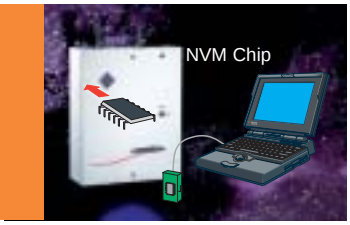
- IP65 GRP lockable housing. W300 x H400 x D180mm
- On/off Key-switch.
- Integral PSU (13.6V DC 0.75Amp regulated).
- Provision for 12V 7Ah rechargeable lead acid battery.
- Integral Sounder (115dB @ 1 metre)

Wanderer Chassis

- Wanderer control electronics mounted on metal chassis. GSM and Wireless stub antennas fitted.
- Wanderer chassis can be fitted to your specification of housing depending on application.
- Requires 12V DC supply, connection of key-switch and 12V sounder.

Programming

Via PC Wanderer software package and NVM programmer.



Order Codes

WAN-100 Standard Wanderer
WAN-200 Marine Wanderer
WAN-300 Industrial Wanderer
WAN-400 Wanderer Chassis
WAN-PC Programming software
CT-5620 NVM Programmer
(connects to PC com port)

VA-511 Wireless PIR movement detector
VA-520 Wireless Smoke Detector
VA-530 Wireless Break Glass Detector
VA-540 Wireless Window/Door contact. Surface mount
VA-560 Wireless Personal Attack pendant/key-fob
ZA-007 PSU12V 1.0Amp output. 220V 50Hz input

Specification

Supply input: 9 / 14v DC

Consumption: Quiescent in Power Saving Mode - 900uA +/- 10%
Quiescent in Normal Mode - 500mA +/- 10%
During Transmission - 500mA +/- 10%
Wanderer Sounder - 150mA

Inputs: 8 wired zones - Normally closed loop, Voltage start (OV), Analogue variable voltage (0-18vDC) monitor
(note: key-switch is wired as a zone)
8 Wireless zones - 434MHz

Outputs: Sounder - 12V 500mA (open collector)
Switchable Output 1 - 12V 50mA (open collector)
Switchable Output 2 - 12V 50mA (open collector)

	Power Saving Mode (Battery only)	**Normal Mode** (PSU required)
On/Off via key-switch	➡	➡
Control via remote GSM Mobile telephone. Includes On/Off, switching outputs, etc.	—	➡
8-Wired zones	➡	➡
8-Wireless zones	➡	➡
Continuous Exit Tone	—	➡
Continuous Entry Tone	—	➡
SMS text messaging	➡	➡
Fast Format signal to ARC Monitoring station	➡	➡

Castle Care-Tech Ltd manufacture all products to ISO 9000 & European CE standards