POWERFENCE™

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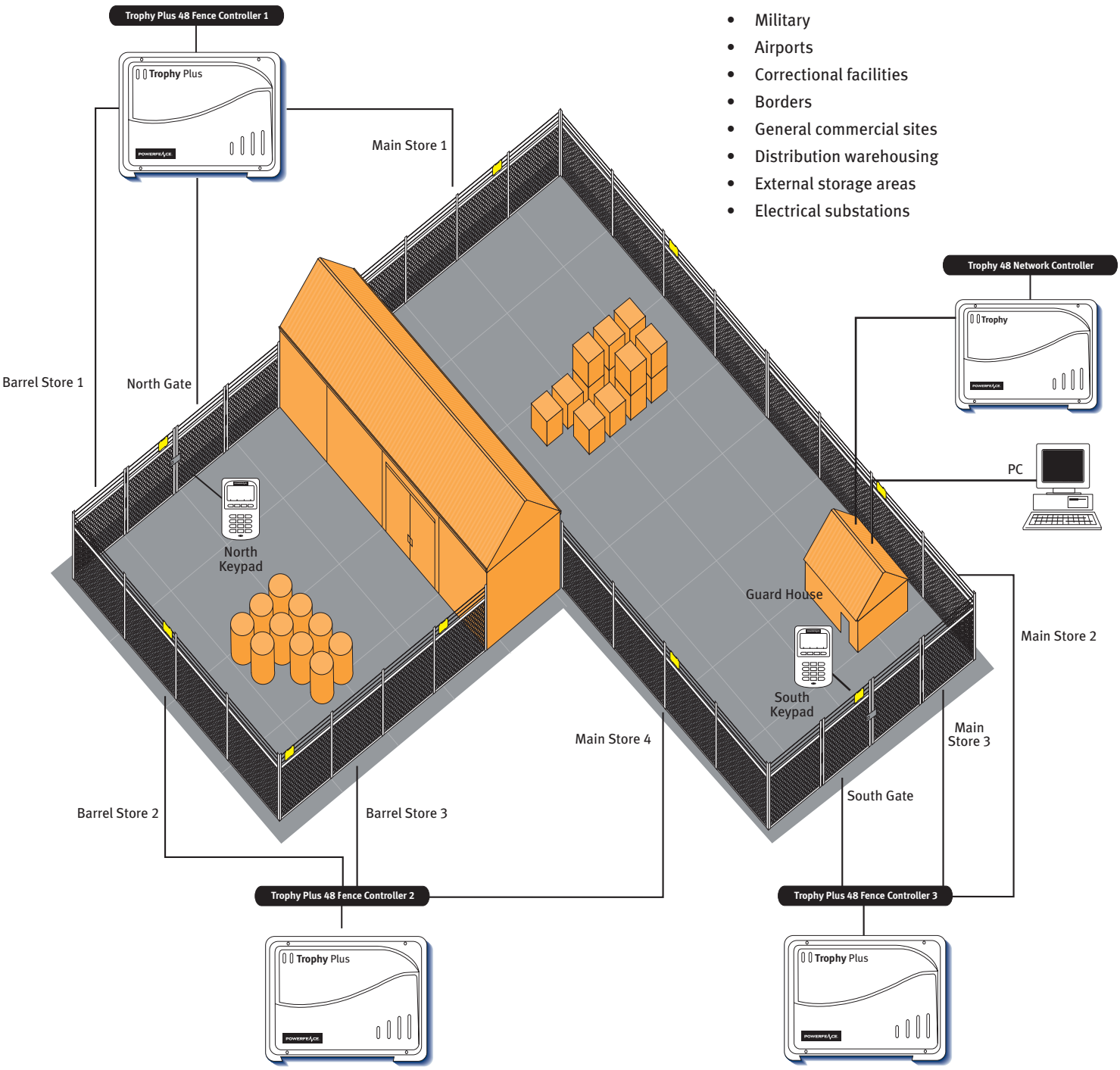
Trophy 48

A feature rich perimeter security system that can be configured to control and monitor up to 48 electric fence zones. Designed for medium to high security sites.

The Trophy 48 system can be configured to suit a wide range of specialist applications.

SITE EXAMPLES INCLUDE:

- Military
- Airports
- Correctional facilities
- Borders
- General commercial sites
- Distribution warehousing
- External storage areas
- Electrical substations



Note: Indicative diagram only showing 9 fence zones and 2 keypads

The Trophy 48 system is a total perimeter secu
detects and deters intruders without false alar

THE SYSTEM
The Trophy 48 system includes up to 16 PowerFence™ controllers and up to 4 keypads.

Applications can include a maximum of 48 electric fence zones and up to 38 alarm inputs.

Regulated electrical pulses are sent around the PowerFence™, which give a short, safe shock.

The pulses are monitored in each zone, activating the alarm if intruders persist in climbing, cutting or tampering with the fence.

DEFINABLE NAMES
Names can be defined for entities within the system such as: areas, zones, operators, inputs and outputs. This customisation allows users to view the site using their own site names rather than names set by the system. The definable names can be up to 18 characters long.

AREA CONTROL
Areas can be used to control individual sections of the system, allowing an area of the site that is frequently used during the day to be disarmed while others remain fully armed.

Areas can contain between 1 and 48 zones and are defined during installation.

FENCE AND ZONING
The Trophy 48 allows up to 48 fence outputs. Each fence output can be used to monitor a separate zone of the fence within an allocated area.

In the event of a security breach, the Trophy 48 system will identify the area and zone in which the alarm has occurred. This allows a suitable response to be quickly coordinated.

In addition to fence outputs, the Trophy 48 system allows up to 38 balanced alarm inputs to be included in the alarm response.

HIGH VOLTAGE ZONE SEPARATION
If an intruder attacks one zone of the fence, the performance of the remaining zones will not be affected. Therefore, if the intruder causes an alarm and enters the site through one zone, they cannot easily escape through another, as the remaining fence zones will continue to be armed with full deterrent.

KEYPAD
Up to 4 keypads can be connected to the Trophy 48 system.

The keypads are specifically designed for ease of use with backlighting and a large graphic display.

User operations are menu driven with 'soft keys' to prompt the next step.

The function of the soft keys alters, depending on the screen being used.

PC INTERFACE
In most installations, a PC will be connected to the network controller for site and alarm management.

Up to 5 access levels are available providing different authorisation levels for operators.

The interface is often used for Guardhouses and by site management for alarm annunciation, area control, log diagnosis, event analyses or as a site overview.

Site overview

FENCE VOLTAGE DISPLAY
The keypad or PC allows the user to view the voltage level on the fence or earth zones. The voltage level gives the user a clear indication on how the system is performing and assists in early diagnosis of any fence line faults.

EARTH VOLTAGE MONITORING
Through monitoring the voltage on the earth the **Trophy** Plus controller detects if the earth system is disabled and will raise the appropriate alarm.

LOGGING
All events are date and time stamped, then logged as per the installer configuration. These logs can be viewed on the keypad/s and the PC by approved users.

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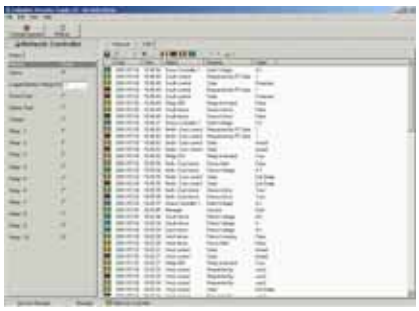
Within the system there can be up to 1000 event logs, 1000 audit logs and 1000 voltage logs.

The optional PC interface allows the operator to export logs to other applications for further analysis.



Log Screen

To prevent the voltage logs from becoming overloaded with information, the system can be configured to log on either a time basis (e.g. every hour) or on trigger levels (e.g. when the fence voltage changes more than 500v).

PULSE SYNCHRONISATION

The pulse synchronisation allows the Trophy 48 system to be integrated with other fences in close proximity.
This ensures that the Trophy 48 system will operate within standards for pulse frequency, through synchronising pulses with adjoining fences.

SMART BATTERY BACKUP

In the event of mains power failure to any controllers, the system will automatically switch over to the backup battery system.

While being powered by the battery, the system will monitor the duration of the power failure and the condition of the battery.

As the battery voltage drops, the system reduces the power consumption of the total system in order to increase the battery life, while still maintaining full site security. If the battery voltage drops below the minimum threshold, an alarm will activate.

PURPOSE BUILT DESIGN

Each of the major system components has been designed specifically for the function it performs, optimising the system for ease of use, installation and service throughout its life span.

DYNAMIC CONFIGURATION

To help the installer tailor the equipment to the individual requirements of each site, the Trophy 48 system is configured by computer and then downloaded to the Trophy 48 network controller.

This allows the Trophy 48 system to be configured to a wide range of sites, each with specialist needs to ensure optimum performance.

CONFIGURABLE FUNCTIONS

The Trophy 48 system has a large selection of configuration options:

- a range of hardware input and output functions as listed on the specification page
- each zone can be connected to one of 20 areas
- each area can be allocated entry and exit delays
- up to 100 users can be entered and are grouped into up to 20 user groups
- each keypad can be allocated a default area that will be displayed when a user is logged in.

Other configurable options within the system are:

Areas
Entry zones, Entry delays, Exit delays, Alarm time, Logic blocks, 24hr areas.

Energizers
Alarm thresholds (2x upper and lower), HV pulse count, Power level, Pulse rate, Slow mode pulse rate, Low battery level, Slow mode battery level, Stop mode battery level, Slow mode delay timer, Pulse synchronisation.

Keypad
Default area, Key brightness, LCD brightness , Auto log off delay, Silent alarm, User expiry dates.

Other
Input options, Output options, Relay modes.

OPTIONAL ACCESSORIES

The Fence Integrity Monitor is a single zone alarm detector that can operate on the Trophy 48 system. It enables the PowerFence™ to detect attack without the deterrent feature of an active, high voltage, electric pulse.

July 2004

TECHNICAL SPECIFICATIONS

FUNCTION	
Number of zones (channels)	Up to 48 HV fence zones (3x per Fence Controller) plus HV earth monitoring per Fence Controller
Max HV channel loop resistance	300 Ohms*
Energizer	15 J stored at 100% power level 2.8 J output per zone irrespective of other zone loading
Inputs	6x Network Controller Plus 2x per Fence Controller All programmable and transparent through the network (BAI**, 24hr, Area arm, End of exit, Alarm Reset)
Outputs	10x Network Controller, 2x per Fence Controller. All programmable and transparent through the network (Area defined Alarm, Armed, Can't Arm, In Entry, In Exit, Instant Alarm, Instant Arm, Latched Alarm, Part Armed, Sealed) Clean contact relays (10A 24V)
Other	Optical tamper detection
USER INTERFACE	
Keypad	Up to 4x Intelligent LCD graphic, back-lit display/keys with soft key function
Network cable distance	Up to 1000m (3,200ft) total network
Maximum Workstation	Up to 1x Computer attached to the Network Controller via a 9 pin serial port
Recommended Computer Specification	P200 or higher (64Mb RAM), 100Mb H.D.D. space, 16 colours, serial port
Operating System	Microsoft Windows 95, 98, NT, 2000 or XP
POWER (Per Network or Fence controller)	
Power Supply	90 -265VAC 50-60 Hz
Temperature rating	-10 to +40°C (14 to 104°F)
Aux. DC output	12-15V 1A (re-settable fuse)
Power Consumption	40W
System Backup Period	8 hours (typical)
PHYSICAL	
Dimensions (per fence controller)	Height 390mm (15 ¼") Width 490mm (19 ¼") Depth 125mm (5") Weight 8.2kg (18lb) including battery
Order Numbers	Network Controller G21600 Fence Controller G21500 Keypad G21701 PC Program varies depending on the options chosen

* While the energy of this unit will allow this length, the classification of risk, the number of elevations in the fence and terrain must dictate the length of a zone for security evaluation.
** BAI stands for Balanced Alarm Input.

FOR MORE INFORMATION CONTACT:

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