Visonic
From Tyco Security Products

PowerMaster-33 EXP G2
Distributed Wireless and Wired Alarm System

Features that Make a Difference:

- Hybrid panel that can be installed out of sight, operated by the KP-250 PG2 wireless two-way keypad.

- Accommodates more than 120 wireless devices:
  - Up to 64 zones, wireless or wired
  - Up to 10 KP-250 PG2 keypads, 32 keyfobs or 32 KP-140/141/160 PG2 keypads, 8 sirens, 4 repeaters

- Optional 3G, GSM/GPRS and IP modules

- Optional ioXpander-8 internal expander module that supports 8 configurable wired input / output ports, wired siren and wired voice box

- Supports up to 4 ioXpander-12x4 external expander modules, for a total of 56 wired zones

- Up to 48 hour back-up battery

- Remote software updates

- Extensive range of PowerG peripherals for every application

- Remote configuration and diagnostics with system status indications

- All devices are configured from the wireless keypad

- SirenNet - Leverages smoke detector buzzers for all alarms

New Markets and Applications for PowerG

PowerMaster-33 EXP G2 is a hybrid wireless and wired security, safety and control system. It is suitable for SME / light-commercial usage and for residential customers who want concealed alarm system. It provides outstanding wireless functionality with all peripherals. The PowerMaster-33 EXP G2 panel is installed and operated by the KP-250 PG2 wireless two-way keypad.

Using Visonic's revolutionary PowerG network technology, PowerMaster-33 EXP G2 fully answers the most demanding requirements facing the security industry today.

PowerG Robustness and Reliability

- Frequency Hopping Spread Spectrum (FHSS).

- Full two-way synchronized TDMA wireless network – Provides streamlined communication and improved channel efficiency.

- Huge transmission range of 2000m (6500ft) line of sight* – Covers significantly larger premises than traditional systems, without repeaters.

- Highly secured AES-128 encrypted wireless communication – Surpasses the most demanding industry standards.

- Adaptive transmission power – Saves energy and significantly extends battery life.

*Measured line-of-sight transmission range: 2000m (6500ft) at 8m (24ft), 750m (2500ft) at 2m (6.5ft)

Quick and Easy Installation

- Special enrolment button on each device simplifies enrolment procedures.

- All devices are configured from the keypad and panel – No hardware switches and no need to re-open the peripherals once closed.

- Customized configuration templates enable configuration of the devices collectively.

- Visible signal quality indication shown on the device – Enables the installer to choose the optimal location without having to walk to the panel during installation.

- Powerful diagnostic tool indicates RF link quality, based on the previous 24 hours' statistics and on-demand bi-directional measurements, displaying immediate problems and enabling verification of the installation during house setup.

Powerful Tools for Central Monitoring Stations

- Remote enrolment, configuration and review of all peripherals in the system.

- Initiate remote walk test with assistance from anyone in the house.

- Remote diagnostics of wireless connection and RF link quality for all peripherals – Based on the previous 24 hours' statistics and on-demand bi-directional measurements.

Green, Energy-saving System

- Two-way, synchronized, spread spectrum communication eliminates unnecessary re-transmissions.

- Typical 5-8 years' battery life for all peripherals.

- Minimum power consumption and pollution due to adaptive transmission power that is determined according to the distance from the panel and level of RF interference.

Specifications

RF network	PowerG - Frequency hopping multi-channel (CDMA)
Frequency bands (Mhz)	433 – 434 868 - 869 912 - 919
Hopping frequencies	8 4 50
Encryption	AES-128
Number of zones	64
User codes	48
Back-up battery	24 hour back-up – 7.2V, 1300mAh, NiMH
48 hour back-up – 9.6V, 1800mAh, NiMH
Dimensions	266 x 201 x 46mm (10.4 x 7.9 x 1.8in)
Weight	1.44kg (3.2 pounds)
Power supply	Internal or external according to local regulations
Reporting formats	Analog: SIA, Contact ID, Scancom; IP: SIA IP, Visonic PowerNet
Communication	PSTN, GSM, GPRS, 3G, IP

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