# Security Pro 4000
# Control Panel

**WIRELESS** ®

**Interactive Technologies, Inc.**

Security
Automation
Access Control
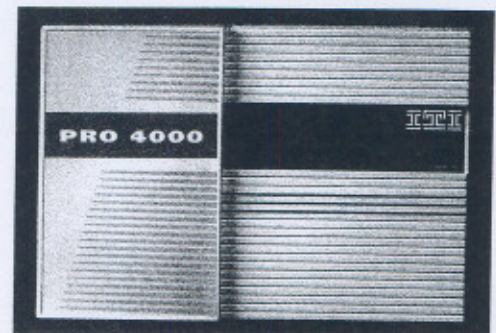
**ITI Part # 60-435-95-10-SEC**

## Overview

The Security Pro 4000 is an advanced wireless security system designed to prevent loss due to burglary and fire. The system can be operated from almost any touch-tone phone, providing users with easy operation without added expense. A digitized voice indicates the system status, reassuring the user that the system is operating properly. A wide selection of versatile touchpads can be used to operate the system, including the VuFone™ Smart Phone and the 4-Button Keychain Touchpad. These touchpads provide additional home automation convenience.

When the Security Pro 4000 system detects an intruder, it responds in several ways to give owners the best security protection. The panel states the nature of the alarm and its exact location, saying for example, *Intrusion! Intrusion! Sensor one!* With optional equipment installed, emergency sirens go off and the lights come on. At the same time, the system calls the central monitoring station so the police or fire department can be notified.

Over twenty types of wireless sensors are available for use with the Security Pro 4000 system. All Pro 4000 system transmitters have their own unique ID codes so a neighboring alarm system does not affect the Pro 4000 system's operation.

## Applications

**The Security Pro 4000 is recommended for**

- Residential security and fire protection
- Commercial security
- Installations where running wires would be expensive and/or difficult

## Features

**Security Pro 4000 features include the following:**

- Wireless and hardwire capabilities in one system
- Forty sensor zones
- Six sensor zones with hardwire compatibility
- On- and off-site telephone control
- 2- and 4-Button Keychain Touchpad compatibility (requires 3.0 software)
- Individual light control (requires X-10® Lamp Module and Line Carrier Transformer)
- Interrogator™ Alarm Verification Module compatibility
- On- and off-site control of premises temperature (requires Energy Saver Module and Feature Expansion Module)
- Digitized voice feedback

# Security Pro 4000 Control Panel

## Specifications

### Power Supply

| | |
|---|---|
| **Required Transformer** | Class II, 9 VAC, 60 Hz (60-515) (or Line Carrier Transformer 60-346-500) |
| **Backup Battery** | 6 VDC, 4 Ah, rechargeable, sealed, lead-acid |
| **Battery Backup Time** | 24 hours (fully charged) |
| **Battery Test** | 15 minutes under load every 24 hours |
| **Panel Fuse** | Self-resetting polyfuse |

### Radio Receiver

| | |
|---|---|
| **Type** | Crystal-controlled superheterodyne with spatial diversity |
| **Frequency** | 319.5 MHz |
| **Bandwidth** | 40 kHz |
| **Sensitivity** | -112 dBm nominal |
| **Nominal Range** | 1,000 ft (300 m) open-air receiving range |

### Telephone/Modem

| | |
|---|---|
| **Dialing** | DTMF or pulse |
| **Modem** | Modified Bell 103 (110 bps) or 4/2 format (20 bps) |
| **Fail-to-Communicate Output** | Trips Interrogator Alarm Verification Module and/or neighboring "Buddy" transmitter |
| **Telephone Interface** | Line seizure relay |

### Inputs/Outputs

| | |
|---|---|
| **Total Input Zones** | 40 |
| **Auxiliary Power Output** | Fused 6.8 VDC output at 500 mA (maximum) |
| **Hardwire Bus Devices** | Up to 8 devices (requires 4-conductor cable) |

### Microprocessor

| | |
|---|---|
| **Processor Type** | Mitsubishi M37451 (8-bit RISC) |
| **Processor Clock** | 10 MHz |
| **System ROM** | 24 kilobytes |
| **System RAM** | 512 kilobytes |
| **Memory Retention** | Unlimited duration (2 kilobytes EEPROM) |

### Digitized Voice

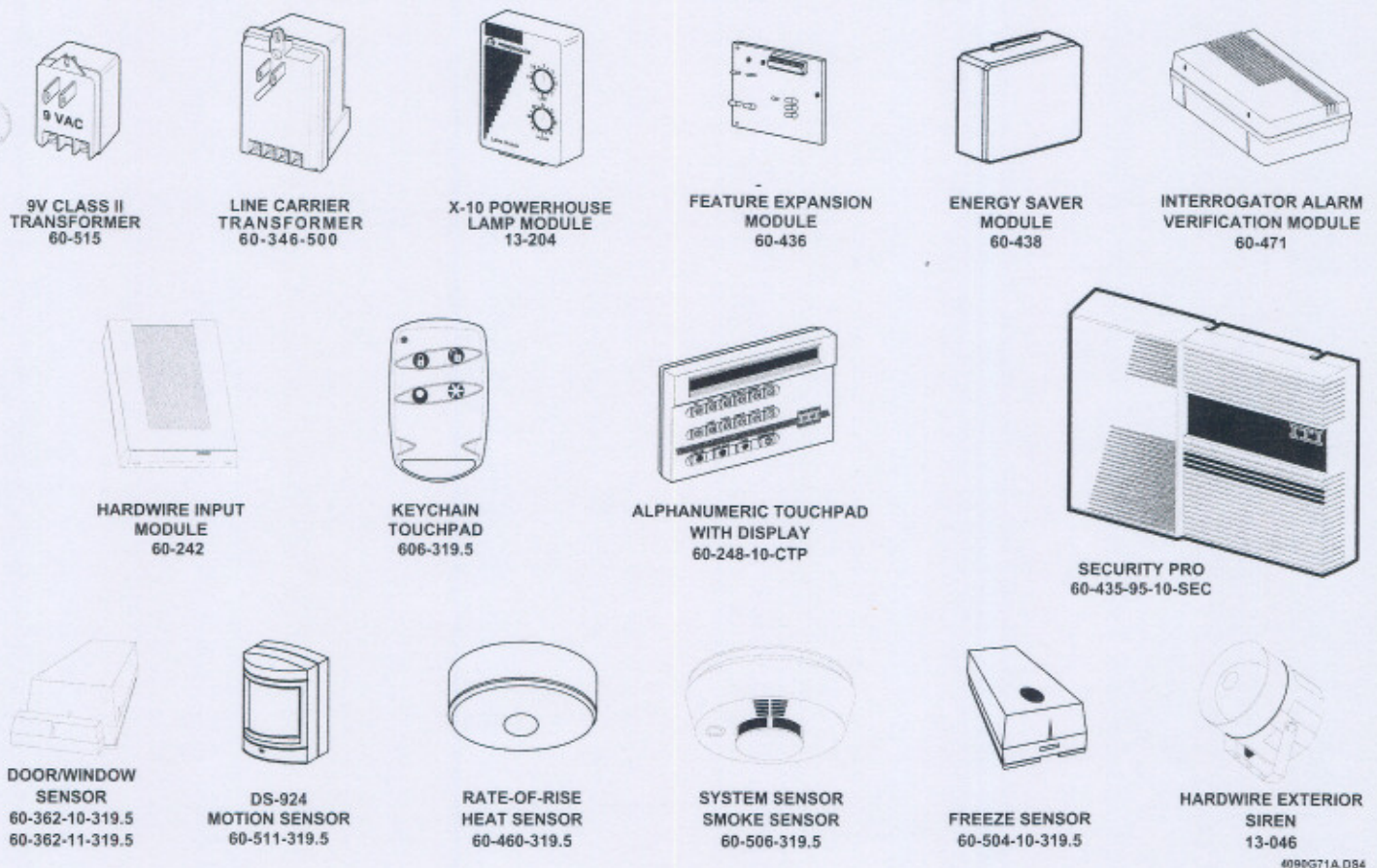| | |
|---|---|
| **Digitization Type** | Adaptive Differential Pulse Coded Modulation (ADPCM) |
| **Playback Rate** | 20,833 bits/second (varies by word) |
| **Vocabulary Size** | 38 words (approximately 24 seconds) |

## Environmental

| | |
|---|---|
| **Operating Temperature** | 40°F (4°C) to 100°F (38°C) |
| **Maximum Humidity** | 70% relative humidity, noncondensing |
| **Standards** | UL 1023, FCC Part 15, FCC Part 68 |

## Physical Description

| | |
|---|---|
| **Color** | Ash White |
| **Dimensions** | 12.65 in (32.1 cm) wide x 10 in (25.4 cm) high + two 9-in (22.5-cm) antennas x 2.25 in (5.7 cm) deep |
| **Weight** | 5 lbs 6 oz (2.4 kg) |
| **Installation** | Wall mounting |
| **Chassis Material** | 0.48-in (1.2-mm) 18-gauge steel, punched and formed |
| **Housing Material** | Polycarbonate ABS Plastic |

## Figure 1: Sample Security Pro 4000 Security System with Peripherals*

9V CLASS II
TRANSFORMER
60-515

LINE CARRIER
TRANSFORMER
60-346-500

X-10 POWERHOUSE
LAMP MODULE
13-204

FEATURE EXPANSION
MODULE
60-436

ENERGY SAVER
MODULE
60-438

INTERROGATOR ALARM
VERIFICATION MODULE
60-471

HARDWIRE INPUT
MODULE
60-242

KEYCHAIN
TOUCHPAD
606-319.5

ALPHANUMERIC TOUCHPAD
WITH DISPLAY
60-248-10-CTP

SECURITY PRO
60-435-95-10-SEC

DOOR/WINDOW
SENSOR
60-362-10-319.5
60-362-11-319.5

DS-924
MOTION SENSOR
60-511-319.5

RATE-OF-RISE
HEAT SENSOR
60-460-319.5

SYSTEM SENSOR
SMOKE SENSOR
60-506-319.5

FREEZE SENSOR
60-504-10-319.5

HARDWIRE EXTERIOR
SIREN
13-046

4090G71A.DS4

* Contact your ITI sales representative for a complete list of sensors and accessories.

# Security Pro 4000 Control Panel

## Optional Accessories (partial list)

**2- & 4-Button Keychain Touchpads (60-607-319.5)**
The Keychain Touchpad allows the system user to conveniently perform basic control panel functions.

**Alphanumeric Touchpad (60-248-10-CTP)**
The hardwire touchpad is used to program the control panel and arm or disarm the system. It has a sixteen-character alphanumeric fluorescent display and can be wall-mounted.

**Door/Window Sensor (60-362-10-319.5 or 60-362-11-319.5)**
The Door/Window sensor detects when the monitored door, window, or protected area opens or closes (available in white or brown).

**DS924 PIR Motion Detector (60-511-319.5)**
The PIR detects movement on the premises by sensing changes in heat patterns.

**Energy Saver Module (ESM) (60-438)**
The ESM controls the operation of temperature controlling devices wired in series with the module. The FEM is also required to operate the ESM.

**Feature Expansion Module (FEM) (60-436)**
The FEM automatically resets devices that require a reset after an alarmist as a hardwire smoke detector. It also contains a voice siren driver that can power an 8-ohm speaker with loud-volume voice alarm messages and loud siren tones. The FEM is required to operate the Energy Saver Module.

**Freeze Sensor (60-504-10-319.5)**
The Freeze Sensor detects when the temperature on the premises drops to about 45°F (7°C) and then sends an alarm signal to the control panel.

**Hardwire Exterior Siren (HES) (13-046)**
The HES provides alarm sounds for fire alarm (steady), burglar alarm (intermittent), and auxiliary and medical alarms (fast intermittent).

**Hardwire Input Module (HIM) (60-242)**
The HIM is used to add hardwire zones to the panel. Each HIM accepts eight hardwire zones (up to four HIMs, equaling 32 hardwire zones per panel).

**Interrogator Alarm Verification Module (60-471)**
The Interrogator Module allows the central station operator to "listen in" and/or "talk back" to the user after an alarm has occurred. This device is especially useful to determine whether or not an alarm report was due to an actual alarm condition. The Interrogator Module can use up to three microphones and two speakers.

**Line Carrier Transformer (60-346-500)**
The Line Carrier Transformer allows the panel to communicate with line carrier devices such as X-10 Lamp Modules and Wireless Interior Sirens.

**Rate-of-Rise Heat Sensor (60-460-319.5)**
The Rate-of-Rise Heat Sensor detects the rate the temperature rises and sends an alarm signal if the temperature rises by 15 F°(8 C°) or more per minute. It also sends an alarm when the temperature reaches about 135°F (57°C).

**System Sensor™ Smoke Sensor (60-506-319.5)**
The Smoke Sensor detects smoke passing through its photoelectric chamber. The sensor also has an alarm horn and low battery annunciator.

**X-10 Lamp Module (13-204)**
The Lamp Module is a plug-in device used to turn premises lights on during exit and entry delay and during alarm conditions (requires a Line Carrier Transformer). The user can also turn lights on or off with a touchpad. Some later software versions also feature individual light control.