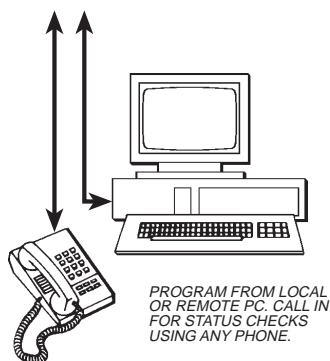
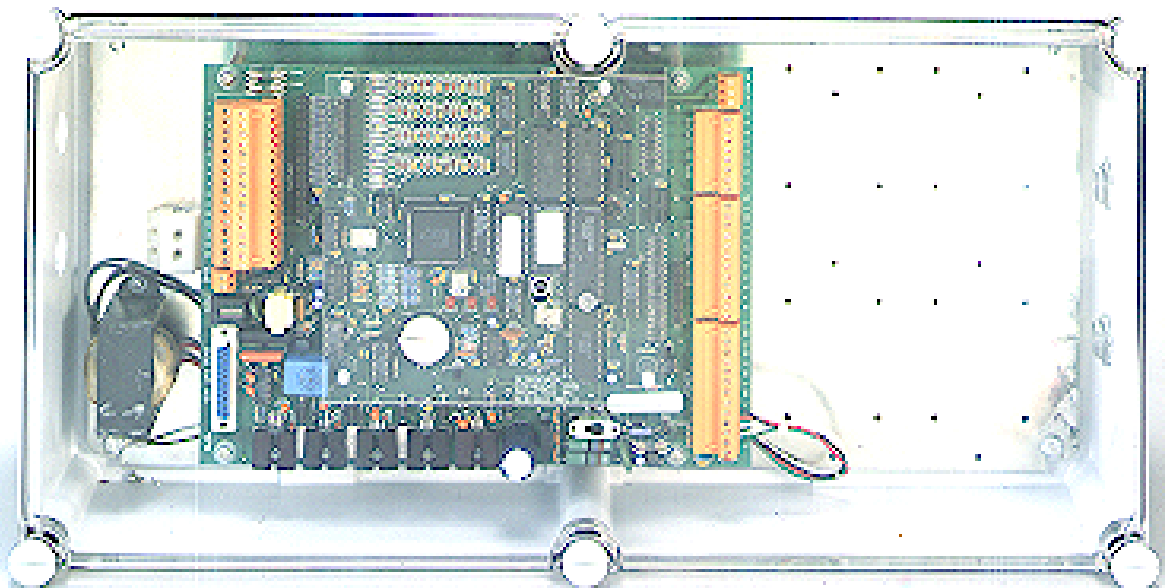


Intelligent System for Automatic Control and Communication



OMEGAPHONE®
OMA-P5000
\$2200

The OMA-P5000 "ISACC" (Intelligent System for Automated Control and Communication) is a unique device that combines monitoring, alarm and control capabilities all in one system. This unit, designed to monitor equipment and environmental conditions, has 16 inputs that can be configured as analog inputs, digital inputs or a combination of both analog and digital inputs. In addition, there are eight digital outputs and four analog outputs.

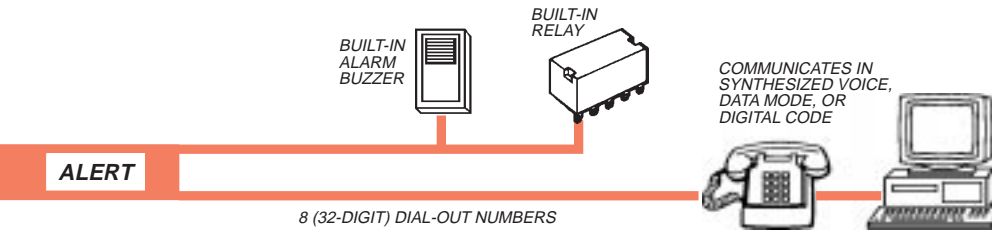
Along with control, ISACC offers communication. Upon an alarm, ISACC can dial up to eight phone numbers and communicate in voice or data with its built-in 300/1200 BPS modem. In the voice mode, SACC delivers alert messages in voice-synthesized English. In the data mode, ISACC can communicate with personnel at their computer terminals through standard phone lines and modems. The unit can also notify a central monitoring service by means of digital code. A local alarm is also provided for immediate action from qualified personnel. ISACC also has dialing

commands that will wait for dial tones or beeper tones, or wait a specified number of seconds. Phone numbers with wait commands can be as long as 32 characters.

A variety of analog input ranges are available, including 4 to 20 mA, 0 to 5 volts and thermistors. Thermistors inputs report actual temperature readout; current and voltage inputs can be scaled to report values in engineering units such as PSI, GPM and RPM. Digital inputs may be used for pulse counting, monitoring contact closures or reading TTL level signals.

A datalogger is built into the ISACC. All 16 inputs may be stored internally and retrieved at any time via modem or through the local RS-232 communications port. Logging intervals can be as short as 1 second or as long as 18 hours. Up to 512 records may be stored into memory. When the data buffer is full, the logger will overwrite the oldest data and add the most recent. Storage can be initiated by specific events or from a time schedule. All data is stored in the system's non-volatile memory. Time is kept by an on-board real-time clock, which has its own battery backup. ISSAC can be set up from

- ✓ **Complete Monitoring, Alarm, Control and Alert Dial-Out Capabilities**
- ✓ **Dials Out to Eight Numbers and Delivers Alert Message in Voice, Data or Digital Mode**
- ✓ **16 Analog or Digital Inputs, Eight Digital Outputs, Four Analog Outputs, 1 Relay for Monitoring and Control Purposes**
- ✓ **Built-In 300/1200 BPS Modem**
- ✓ **Battery Backup, Password Protection**
- ✓ **Datalogging Capability**
- ✓ **Programmable in "C"**



Specifications

Memory: 96K EPROM; 64K RAM with battery backup

Number of Inputs: 16 Analog or digital

Number of Outputs: 8 Digital, 1 relay, 4 analog

Input Types: Dry contact, pulse count, 0-5 V, 4-20 mA, thermistor (10K, 44006 element)

Analog Input Resolution: 10 bit

Output Type: digital, TTL logic level; relay, SPDT form C; analog, 0-10 V

Analog Output Resolution: 8 bit

Output Rating: Digital, 20 mA sink/source; relay, 5A 250 Vac

Communications Interface: RS-232C, local serial port; RS485, networking port; RJ11C, telephone connection (built-in modem and digital voice)

Communications Speed: RS-232C, 300-9600 baud selectable; RS485, 38.4 Kbaud; modem, 300-1200 baud

Power: 24/110 Vac

Battery Backup: 4-6 hour gel cell

Enclosure: Polycarbonate NEMA 4

Operating Environment: 32 to 120°F (0 to 49°C), 10 to 95% RH

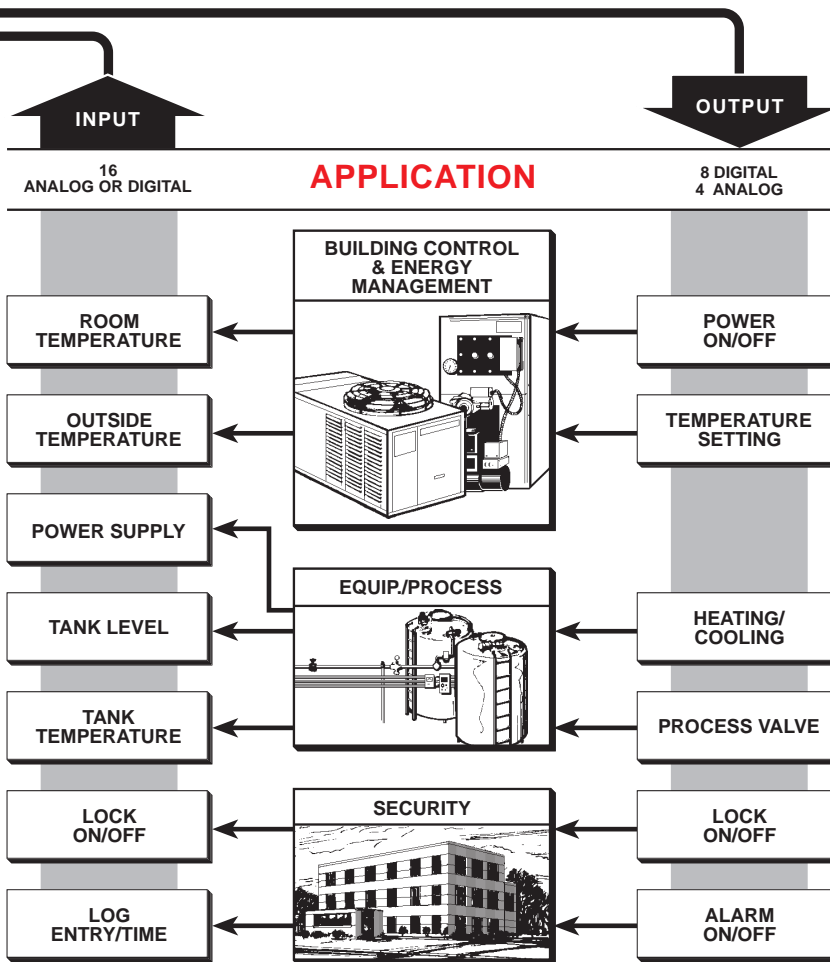
Real Time Clock: Clock and calendar with battery backup
Datalogger: 512 blocks data storage

Programming: via RS-232 or modem

Dimensions: 11" H x 15" W x 5" D (280 x 380 x 127 mm)

Weight: 11 lbs, 6 oz (5.1 kg)

See Next Page for ISACC Software



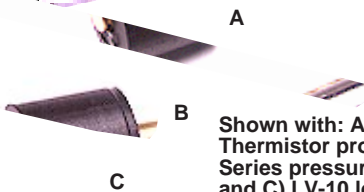
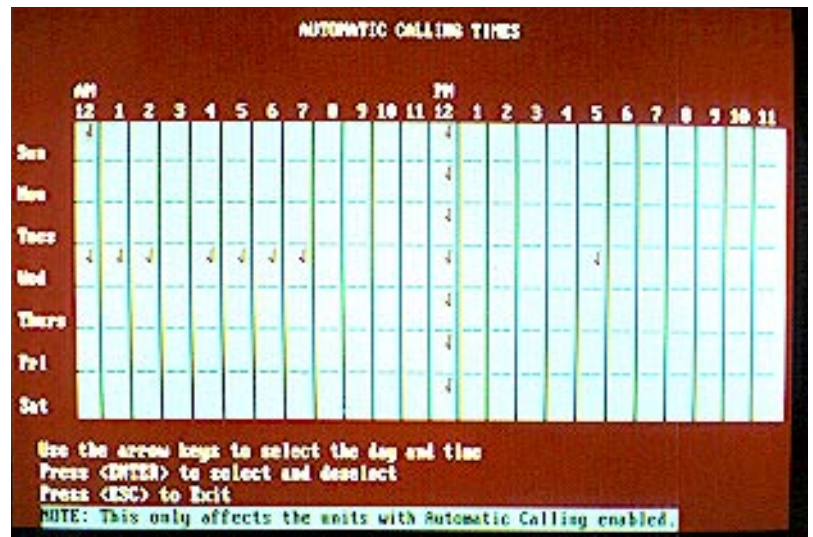
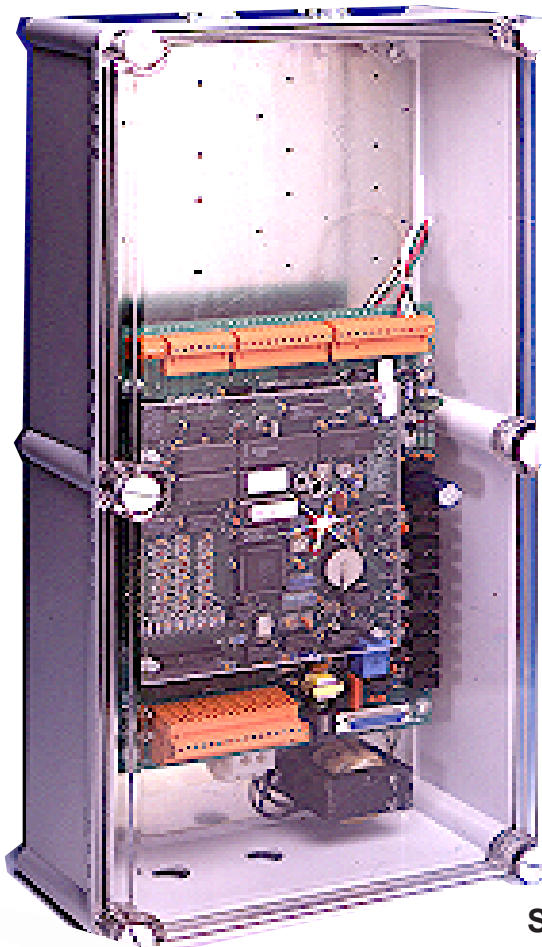
a dumb terminal or from any PC-based computer. Terminal emulation software is included to interface with ISACC. ISACC has an easy-to-use command line interpreter to enter phone numbers, input types, alarm points, lookup tables, etc. ISACC also has an on-board "C" compiler, which makes it possible to write custom programs to implement almost any monitoring and control algorithm. The ISACC C language contains the standard C commands plus special commands for reading inputs, dialing numbers and accessing ISACC's other I/O functions.

To Order (Specify Model No.)		
Model No.	Price	Description
OMA-P5000	\$2200	ISACC monitoring system
SWD-MGR	199	MANAGER PC Software (see next page)

Comes with complete operator's manual and terminal emulator software.

Ordering Example: OMA-P5000 ISACC monitoring system plus MANAGER PC software, \$2200 + 199 = \$2399.

MANAGER ISACC Monitoring System PC Software



Shown with: A) ON-902-44006 Thermistor probe (\$75), B) PX602 Series pressure transducer (\$198) and C) LV-10 level switch (\$26).

SWD-MGR
\$199

- ✓ Automatic Retrieval of Information from ISACC's Datalogger
- ✓ EDITOR/COMPILER/SIMULATOR to Test Run C Programs
- ✓ Full Screen Display Format for All Programmable Features
- ✓ Allows Remote Networking of Multiple ISACC Units to a Central Computer

The ISACC MANAGER PC Software is a completely menu-driven software package to help you program and maintain ISACC with ease. MANAGER software is user-friendly, complete with step-by-step HELP screens, and can be easily handled by someone with

little computer experience. Yet it also has superior flexibility to take full advantage of ISACC's programming capabilities.

The full screen format puts all programmable parameters at your fingertips, enabling you to make changes on the PC and then have the computer update ISACC.

An editor/compiler/simulator helps you to perfect C programs before connecting with an ISACC unit. This feature allows the user to compile and test run the program under simulated conditions to eliminate errors before downloading programs to ISACC.

MANAGER provides you with a wide range of report options on datalogging, alarms, errors, programming, database information, present status, and summary information. The software can also format ISACC's datalog information so that it can be used to create a report in Lotus 1-2-3®.

With MANAGER, data can be transferred with ISACC through direct on-line communication or PC-controlled automatic communication. In addition, you can also control ISACC on a time-dependent basis and formulate reports on the status of the unit and the data gathered. This helps you manage and maintain advanced ISACC functions even when you are not there.

MANAGER software flexibility enables users to utilize ISACC efficiently and maximize its unlimited programming capacity. ISACC and MANAGER PC software provide a comprehensive monitoring package to control, monitor and communicate in virtually any application.