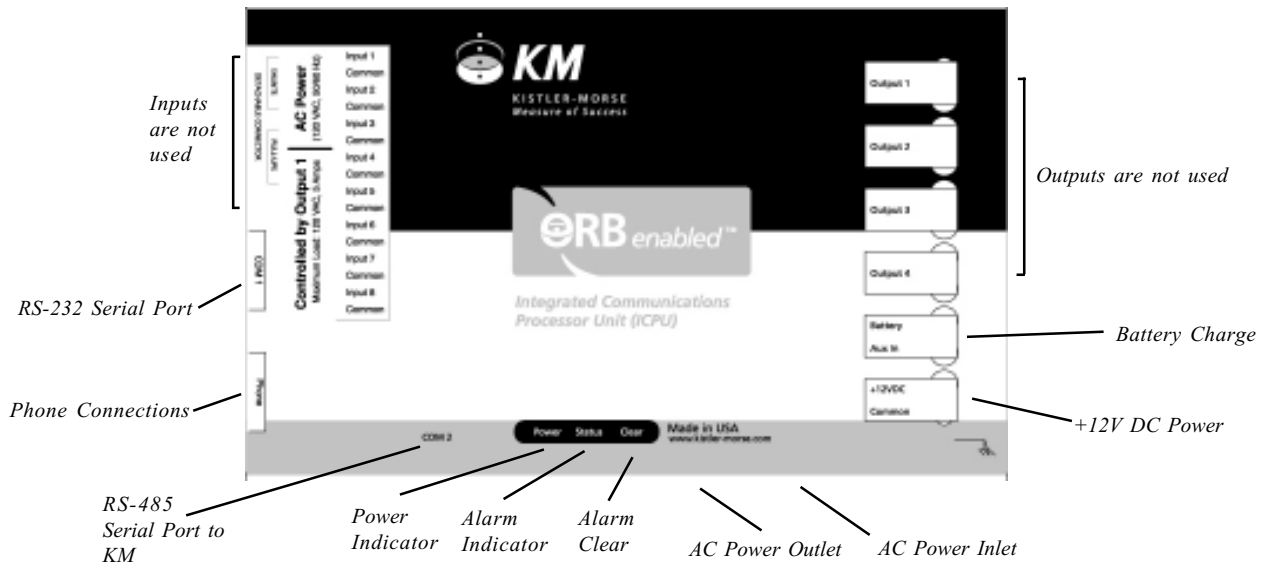


# **Integrated Communications Processor Unit (ICPU) for Orb-enabled™**

## *Quick Start Guide*



### **1** Establish Mounting Location

The ICPU should be mounted in a convenient location close to the conditions being monitored. When mounted in the optional NEMA-4X weatherproof enclosure, the ICPU can be used in damp or dusty environments or placed outdoors.

### **2** Connect to AC Power Supply

Plug the power cord into the ICPU AC Power Inlet. Connect the other end into a properly grounded (3 wire) electrical outlet.

### **3** Connect Battery

To enable the ICPU's battery backup, you must connect a shorting clip (supplied) between the AUX terminal and the BATTERY terminal on the front panel. Once the clip is in place, the battery will require up to 24 hours to fully charge. Whenever the ICPU is taken out of service, you should remove the shorting clip or the battery will discharge.

### **4** Connect to a Phone Line

Plug the telephone cord into the ICPU phone connector labeled 'Line'. Connect the other end into an RJ-11 telephone outlet.

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## **5 Connect to a Local Terminal (optional)**

Attach a 9-pin RS-232 cable (not supplied) between the ICPU and the RS-232 serial port on your PC or data terminal. Since the ICPU is configured as DCE, it connects directly to an IBM PC. A 'null modem' cable may be required if you are using equipment other than an IBM PC.

The factory default baud rate for the RS-232 connection is 9600 baud with no parity, 8 data bits and 1 stop bit.

## **6 Connect RS-485 Input COM2 Port**

The ICPU's is capable of monitoring up to 32 inputs. Each module accepts up to 8 inputs and connects to the ICPU via a twisted pair cable. Each module can be located up to 500 feet away from the ICPU.

## **7 Set Up Communications**

After connecting to the ICPU via RS-232 or dial-up phone line, the ICPU is configured using a terminal emulation software package. You can use the 'Terminal' program that comes with Microsoft Windows 3.1, 'Hyper-Terminal' that comes with Windows 95 and up, or other popular communication packages such as ProComm Plus, Crosstalk and Crosstalk for Windows. See ICPU Reference Manual for detailed information.

## **8 Establish Communications**

### **Call the ICPU**

Initialize the terminal emulation software, i.e. Hyperterminal and 'Dial' the unit.

### **Enter security code**

Once the ICPU answers, you will be prompted to enter a security code. Enter a valid code within 30 seconds or the ICPU will terminate the connection. The default code "11111111" (8 ones) followed by Enter. At the prompt, press Enter for a listing of commands.

## **9 Configure Data Logging, Alarms, and Power Monitoring**

### **Set up channels for Data Logging**

Type "INP S" and enter the channel number to edit. Review the settings and select the appropriate number to revise the settings.

### **Set up Alarms**

Type in "PHO". Select the appropriate code to view or edit the listing of names and phone numbers, and phone settings.

### **Set up Power Monitoring**

Type "POW" and the ICPU will return a list of valid power monitoring commands and related instructions.

## **10 Indicator Lights**

### **Alarm Indicator & Clear Switch**

The STATUS indicator on the front panel will flash if there are any unacknowledged alarms, or stay on continuously if there are acknowledged alarms. The CLEAR switch permits alarms to be canceled from the front panel.

### **Power Indicator**

The POWER indicator will be green when AC power is present, and red if the battery backup is in use.