

CPU-1 Quick Start Manual

United Security Products

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Fig. 1 Typical system setup

BEFORE APPLYING POWER TO THE CPU-1

Step 1

Connect the AD2000 or any other USP voice dialer to the CPU-1 (i.e. TEL IN to TEL IN) using a standard telephone extension as shown in Fig. 1. Connecting the two units differently will result in faulty operation.

Note: Leave the dialer TEL OUT jack open.

Step 2

Connect the CPU-1 TEL OUT to a live telephone wall jack using a standard RJ11 type extension cable.

Step 3

Connect the 3mm right angle power plug from the CPU-1 to the dialer 12VDC input jack.

Note: You may at this point elect to power the dialer separately using an AC-2P adapter, but keep in mind that you will lose the advantage of standby power provided by the CPU-1 if it is connected to the optional (2 to 3AH) gel cell battery for up to 12 hours of combined operation.

Step 4

Attach the small stick antenna to the SMA jack on top of the CPU-1. After power is applied, you will have to determine if the location you selected for the CPU-1 is favorable for adequate signal strength or if relocation is necessary (see step 9). There's also the option of using an external antenna at the end of a 10-ft extension cable for placement near a window for better reception.

APPLY POWER TO THE CPU-1 AND CHECK SYSTEM OPERATION

Step 5

The preferred sequence is to first connect the 12VAC/40VA transformer to the mating cable plug from the CPU-1. Plug the transformer into a live 120VAC outlet and secure it in place using the mounting screw provided. Next, connect the optional gel cell battery via the mating connector plug from the CPU-1.

Note: To prevent accidental cross connection between the 12VAC and 12VDC sources, the genders on the mating plugs have been reversed.

Step 6

At this stage you should verify that the SIM light is on. If not, check with your dealer or the factory to determine if a valid SIM card has been installed inside the CPU-1. Without a SIM card, the system is inoperative.

CAUTION

Rapidly turning the CPU-1 power on and off and then on again may cause the internal cellular module to fail initialization, rendering it inoperative for the duration that power remains applied. To correct the problem, just turn off power, wait 5 seconds, and then turn it back on again. An easy way to determine if initialization has succeeded, immediately after power is applied, simply look at the SIM light and momentarily press the TEST button using a pen or pencil point. If the cellular module has been properly initialized the light should blink at least once. If the SIM light stays on steady, repeat the process by turning power off and on again after 5 seconds. Once initialized, the system will remain fully functional so long as power is present.

Step 7

With the CPU-1 connected to a live TELCO line, the dialer now operates in the standard mode without using cellular service. You should refer to the corresponding dialer User Manual for programming and other features.

Step 8

Let's consider what happens when the TELCO line is either cut or disconnected, or when the CPU-1 is turned on without a live TELCO line hookup. In this case it will take approximately 30 seconds for the CELL light to turn on, slow at first but then steady within a few seconds. This is an indication that cellular service is now available.

Step 9

At this stage, you should perform the signal strength test mentioned earlier. Observe the SIM light after pressing the TEST button. For minimum reliable operation, there should be at least 7 flashes/beeps; if less, we strongly recommend relocating the CPU-1 or try using an (optional) external antenna with a flexible 10-ft cable to improve reception. For best performance, find a location for the external antenna or the CPU-1 itself near a window away from metallic objects.

Step 10

When AC power is present, the 12VAC light should be on. Likewise, when the optional gel battery is added for up to 12 hours standby, the 12VDC light comes and slowly fades once the battery approaches full capacity, at which time the charge current reduces to a trickle current. Battery recharging from a depleted state may take up 24 hours or longer, depending on how low and how long the battery is left at zero capacity.

CAUTION

Do not use any battery other than the gel cell we recommend; low capacity batteries may not be able to withstand the constant charge current of 65mA for a prolonged period of time. In applications where no 120VAC voltage is available you may consider using solar-powered battery systems with adequate ratings to keep the system running indefinitely and with minimum maintenance; knowledge of geography, average duration of direct sunlight exposure, battery capacity and other factors determine operational reliability. Check with the factory for available options.