
Section 1

Introduction

The 4880 provides 16 switched outputs, 4 form C relay contacts, and an X10 module interface. See Table 2-1 for electrical specifications for the outputs and relays. The 4821/4820 supports up to 16 X10 house codes (16 devices per house code).

Note: X10 devices are not UL listed.

The 4880 is fully supervised by the SBUS through which it connects to the 4821/4820.

In conjunction with 4821/4820 programmable I/O statements, the 4880 can be programmed to activate upon virtually any system action. The many types of applications the 4880 is suitable for include:

- Separating bell outputs in a multi-partitioned system
- Annunciation of specific types of alarms
- Allowing X10 devices to interact with 4821/4820 system events

Section 2.3 of this manual shows some examples of how installations could be programmed. The *I/O Application Programming Manual* (P/N 150913) describes I/O programming details.

Section 2

Installation

Figure 2-1 below shows the 4880 board layout.

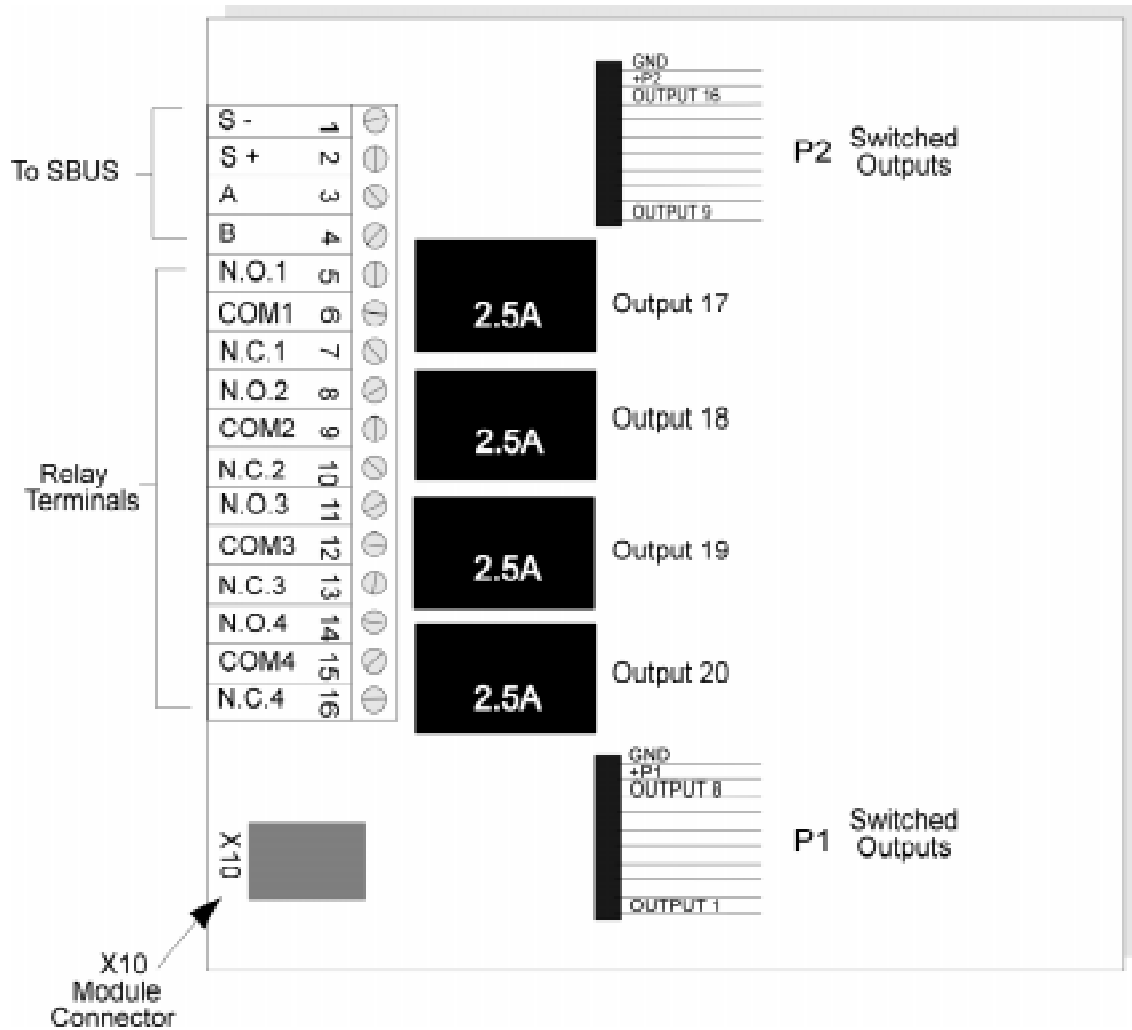


Figure 2-1 4880 Board Layout

2.1 Electrical Specifications

Table 2-1: 4880 Terminal Description

Name		Terminal Description	Electrical Rating
1	-S	Expansion Bus (-)	
2	+S	Expansion Bus (+)	10.0 to 14.0 VDC, 1 Amp max.
3	A	Expansion Bus (data)	0 - 5 VDC
4	B	Expansion Bus (data)	0 - 5 VDC
5	N.O.1	Relay Contact (Normally Open) #1	2.5 Amps max. @ 24 VDC
6	COM1	Relay Contact (Common) #1	
7	N.C.1	Relay Contact (Normally Closed) #1	
8	N.O.2	Relay Contact (Normally Open) #2	
9	COM2	Relay Contact (Common) #2	
10	N.C.2	Relay Contact (Normally Closed) #2	
11	N.O.3	Relay Contact (Normally Open) #3	
12	COM3	Relay Contact (Common) #3	
13	N.C.3	Relay Contact (Normally Closed) #3	
14	N.O.4	Relay Contact (Normally Open) #4	
15	COM4	Relay Contact (Common) #4	
16	N.C.4	Relay Contact (Normally Closed) #4	

2.2 Pin Connectors (P1 and P2)

Pin connectors P1 and P2 on the 4880 board are for powering the switched outputs. Each output can provide up to 100 mA of current. Each output can be active simultaneously (for a total of 1600 mA per 4880).

Table 2-2: Connector P1

Pin Number	Wire Color	Description
1	Brown	P1-1 Output 1
2	Red	P1-2 Output 2
3	Orange	P1-3 Output 3
4	Yellow	P1-4 Output 4
5	Green	P1-5 Output 5
6	Blue	P1-6 Output 6
7	Violet	P1-7 Output 7
8	Gray	P1-8 Output 8
9	White	+5 to +32 VDC Input Must be connected to a power source.
10	Black	GND

Table 2-3: Connector P2

Pin Number	Wire Color	Description
1	Brown	P2-1 Output 9
2	Red	P2-2 Output 10
3	Orange	P2-3 Output 11
4	Yellow	P2-4 Output 12
5	Green	P2-5 Output 13
6	Blue	P2-6 Output 14
7	Violet	P2-7 Output 15
8	Gray	P2-8 Output 16
9	White	+5 to +32 VDC Input Must be connected to a power source.
10	Black	GND

2.3 Sample 4880 Applications

This section provides some sample applications showing how I/O programming statements can be used to control the 4880 and other devices (X10 modules) which react to data from the system.

Example 1: Separating Sounding Device Outputs Between Partitions

Figure 2-2 shows a 4880 used in a two-partition 4821/4820 system. In this application, a burglary alarm condition in Partition 2 outputs on P1-8 which activates a sounding device attached to Output 20. Because the I/O programming statement specifies Partition 2, a burglary alarm condition in Partition 1 will not activate the sounding device.

IMPORTANT: The sample script on the next page is a partial script only. It will not operate properly as shown. Do not attempt to create I/O application scripts until you have read the *I/O Application Programming Manual* (P/N 150913).

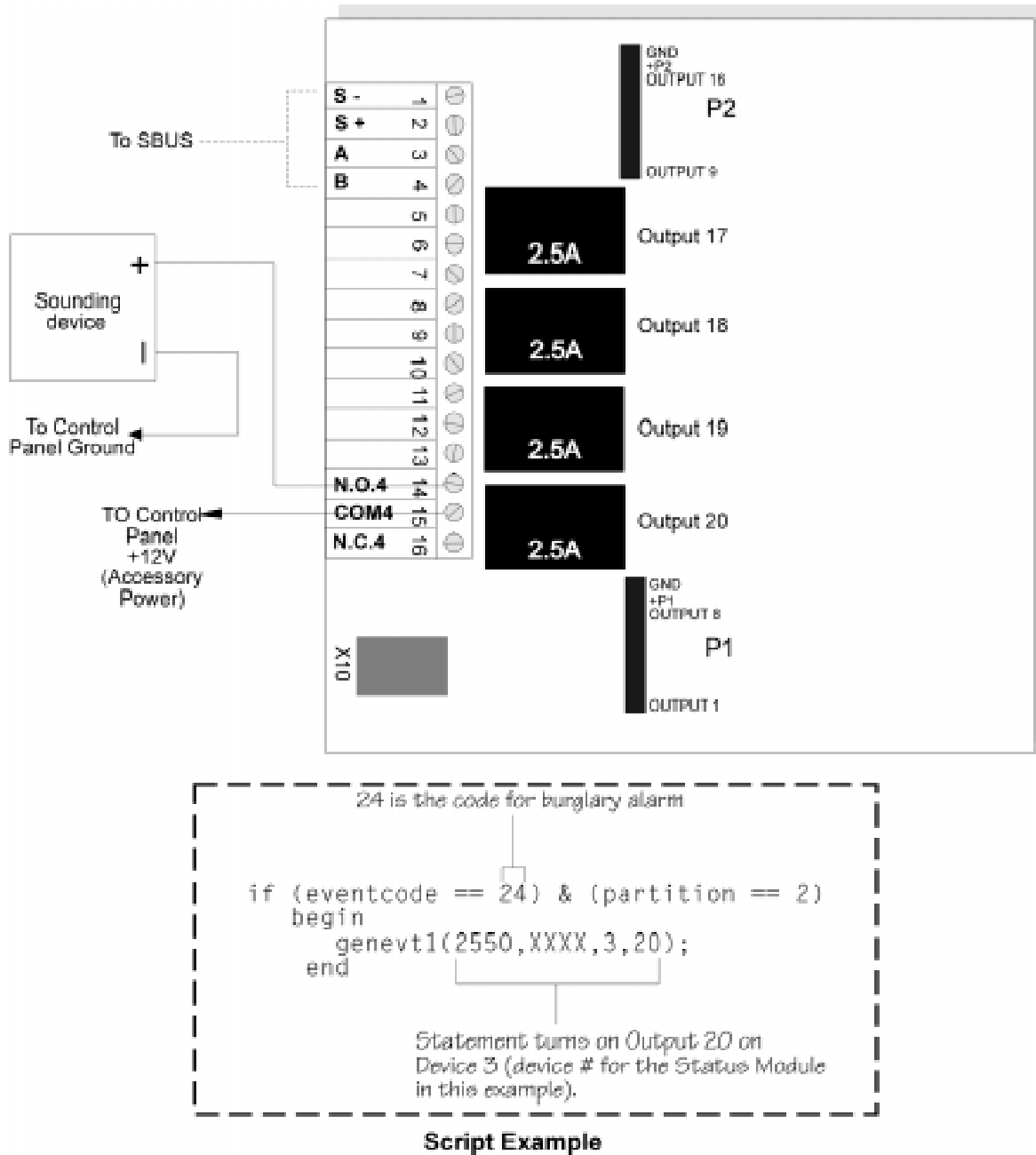


Figure 2-2 4880 Relay Used to Activate Sounding Device in Multi-Partitioned 4821/4820 System

Example 2: X10 Module Use (Model 4181)

Figure 2-4 shows an X10 module used to turn on a lamp during a time schedule that has been specified by an I/O programming statement. (The system supports up to 16 house codes, with 16 devices per house code.) Figure 2-3 shows the hardware setup required for the application.

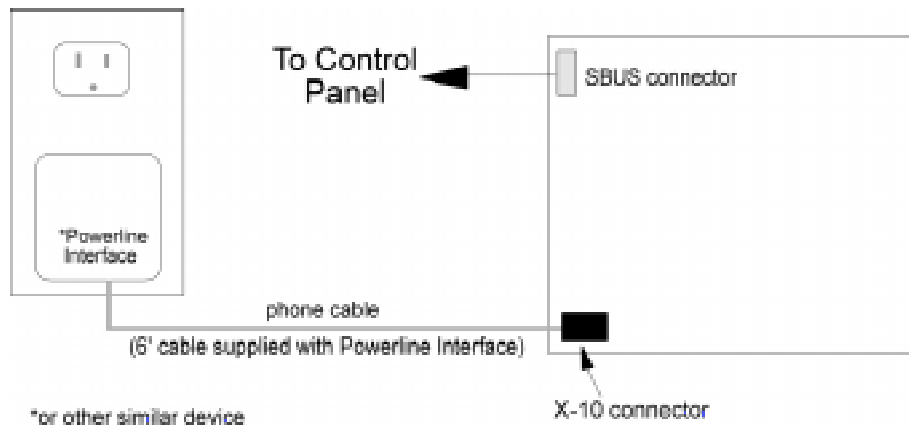


Figure 2-3 Sample X10 Hardware Setup

IMPORTANT: The sample script below is a partial script only. It will not operate properly as shown. Do not attempt to create I/O application scripts until you have read the *I/O Application Programming Manual* (P/N 150913).

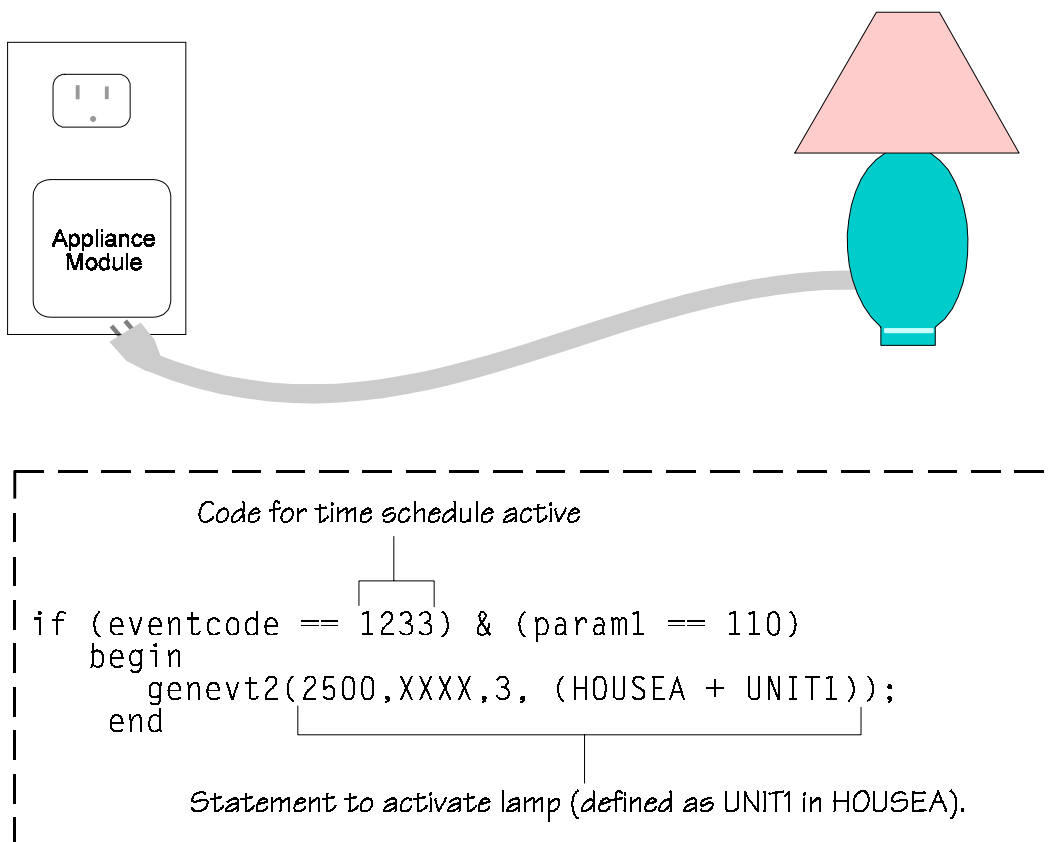


Figure 2-4 Sample X10 Application