

**THE 2411 CONTROL SYSTEM
USER GUIDE**

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CHANGE DETAILS

ISSUE	AUTHORISATION	DATE	NOTES
2	IRH	20.08.90	Minor modifications and upgraded to Ventura
3	IRH	04.03.91	Text modifications to Introduction and Section 3.

THE 2411 CONTROL SYSTEM USER GUIDE

1. INTRODUCTION

The 2411 is a versatile 6U module suitable for various product applications.

This document refers to the 2411 configured with Software Product No P0010 so that it functions as a matrix control system offering the following facilities.

The control of up to 4 levels of a matrix, 15 UMDs, 32 control panels, a PC port for connection to the Pro-Bel editor system (operational details defined in the Pro-Bel software user manual SW-U-03) and an external computer port programmed to the protocol specification SW-P-08.

As a Control System, the 2411 can reside within High Density Video Switchers or within a 1U box(6170).

2. HARDWARE CONFIGURATION FOR THE 2411 WITHIN AN HD VIDEO ROUTER

The 2411 control card has eight RS485 ports and two ports which are 'jumper' selectable to either RS485 or RS232. There are twelve 9W'D' sockets on the rear of the frame, labelled 1-12, which are assigned as follows:-

- Port 1 - RS485 Switcher port.
- Port 2 - RS485 Switcher port.
- Port 3 - RS485 Switcher port.
- Port 4 - RS485 Switcher port.
- Port 5 - RS485 Switcher port.
- Port 6 - RS485 Under Monitor Display (Multi- drop - up to 15).
- Port 7 - RS485 1st Multi-drop panel port chain (Upto 16 panel settings 1 - 16).
- Port 8 - RS485 2nd Multi-drop panel port chain (Upto 16 panels settings 1 - 16).
- Port 9 - RS485 Jumper selectable with port 11.
- Port 10- RS485 Jumper selectable with port 12.
- Port 11- RS232 Port set for editors.
- Port 12- RS232 External computer port.

Ports 9 and 11 are mutually exclusive as they provide either a RS232 or RS422 communication link to the editors. The jumper PL8 on the 2411 determines the communication electrical standard adopted.

The same relationship exists for ports 10 and 12, but the jumper used to select the communication electrical standard is PL7.

3. HARDWARE CONFIGURATION FOR THE 2411 WITHIN THE IU FRAME

The 6170 1U control frame has eight RS485 ports and two 'jumper' selectable ports to either RS485 or RS232. There are twelve 9W 'D' sockets on the rear of the frame, labelled SK1-SK12, which are assigned as follows:-

- SK1 - RS485 Switcher port
- SK2 - RS485 Switcher port.
- SK3 - RS485 Switcher port.
- SK4 - RS485 Switcher port.
- SK5 - RS485 Switcher port.
- SK6 - RS485 Under Monitor Display (Multi- drop up to 15).
- SK7 - RS485 1st Multi-drop panel port chain (Upto 16 panel settings 1 - 16).
- SK8 - RS485 2nd Multi-drop panel port chain (Upto 16 panels settings 1 - 16).
- SK9 - RS485 Jumper selectable with SK 10.
- SK10- RS232 Editor port.
- SK11- RS232/RS485 External computer.
- SK12- Power Supply monitor.

SK 9 and 10 are mutually exclusive as they provide either an RS232 or RS485 communication link to the editor computer. The jumper PL8 on the 2411 determines the communication electrical standard adopted.

A similar relationship exists for SK 11. However, there are jumpers contained within the 6170 which are used to select the communication electrical standard as well as the jumper PL7 on the 2411. Both jumper sets must be set to the same standard which allows a single port on the 6170 to be used. See Figure 1 for details of jumper settings.

The Jumpers within the 6170 are labelled as detailed in Figure 1.

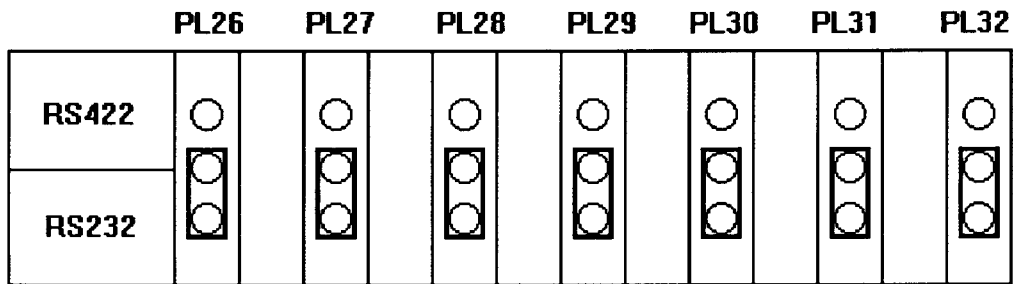


Figure 1

In Figure 1, the 6170 has the Port SK11 set to RS232, therefore the Jumper PL7 on the 2411 must be set to RS232. For RS485 configuration, Jumpers PL26 to PL32 should be set to the high position and PL7 altered to RS485.

4. DIAGNOSTIC LED INFORMATION ON THE 2411

LED'S on the front of the module indicate the following :

LED's 1 - 8 display a running binary count this indicates the system is active.

LED's 9 - 12 indicate the number of control panels connected to the first multi-drop panel port.

LED's 13 - 16 indicate the number of control panels connected to the second multi-drop panel port.

5. IMPORTANT JUMPER SETTINGS ON THE 2411

Jumper	Function	Required Settings
PL4	Processor Clock	16 Mhz
PL5	EPROM size select	27256
PL36	NORM/TEST	NORM
PL37	EPROM/EEPROM	EPROM

Jumper	Function	Recommended Setting
PL7	RS485/RS232	RS232
PL8	RS485/RS232	RS232
PL9	HI - panel diagnostics ON	LOW
	LOW - panel diagnostics OFF	
PL10	HI - Status Display 525 lines	
	LOW - Status Display 625 lines	

