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1 Application

The 6280 series of router control panels are rack mountable 1U control panels each housed within a custom built aluminium case.

2 General Description

The module comprises the following main blocks:

- 6280 Series Control Panel
- 6701 Control Module
- 1143 Power Supply Module

The control panel unit consists of a custom built aluminium case containing the control card, keyboard display modules and power supply.

The control buttons have clear plastic keycaps which are illuminated and legible by transparent labels. The labels also serve to diffuse the light illuminating the buttons enabling them to be seen from different angles.

See also Drawing number 628844-A3.

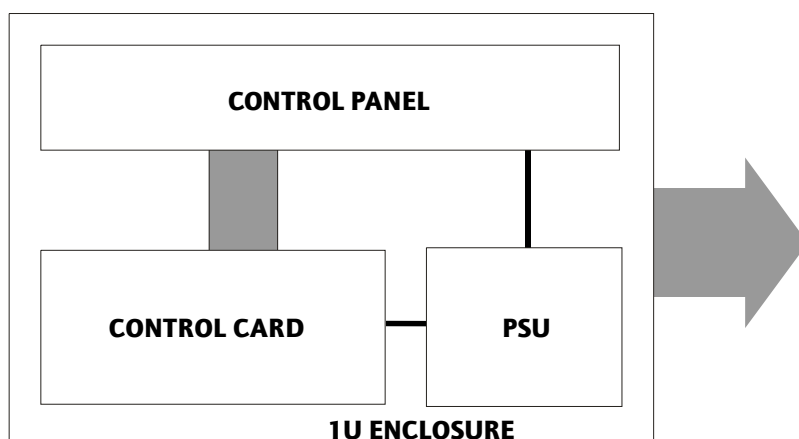


FIG. 1 CONTROL PANEL BLOCK DIAGRAM

3 Principle of Operation

The control panel is used to select the source or destination required from the router.

The 6701 control card acts as the controlling device between the keyboard/display modules in the control panel and the router control systems.

The keyboard/display modules are continually scanned by the 6701 module and if any key is found to be pressed, the relevant command is then sent to the router control system via a serial link.

The router control system actions this command and sends an acknowledgement back to this 6701 module, which in turn sets a tally LED or displays information on the display to confirm that the key press has been actioned.

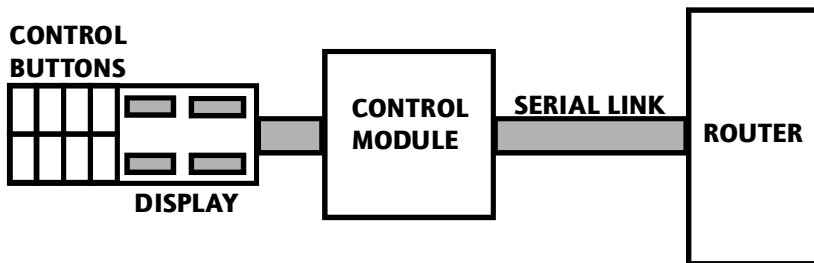
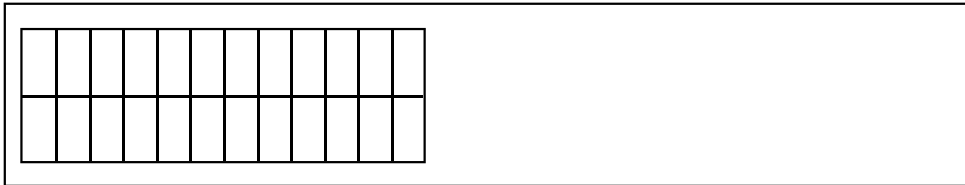


FIG. 2 PRINCIPLE OF OPERATION

4 Panel Description

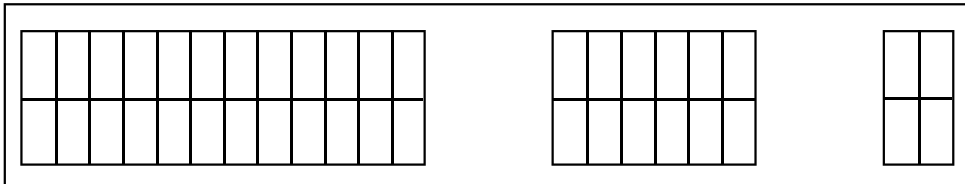
4.1 6280

The 6280 is a 24 button single row control panel with legendable buttons on plug in PCB assemblies. The panel is LED tallied and uses 24V or mains power. Communications between the control panel and router are via serial links type RS485 using Pro-Bel multi-drop protocol SW-P-06 or point to point protocol SW-P-05 depending on the application.



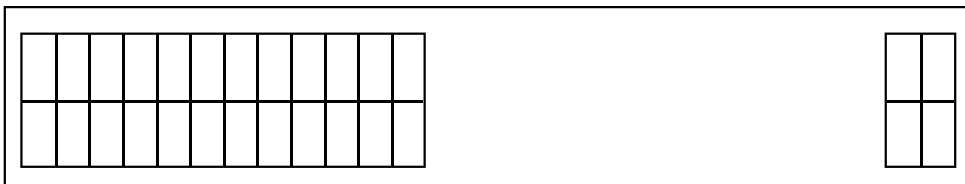
4.2 6281

The 6281 is a 24 source 12 destinations 4 level X-Y control panel with legendable buttons on plug in PCB assemblies which is LED tallied and uses 24V or mains power. Communications between the control panel and router are via serial links type RS485 using Pro-Bel multi-drop protocol SW-P-06 or point to point protocol SW-P-05 depending on the application.



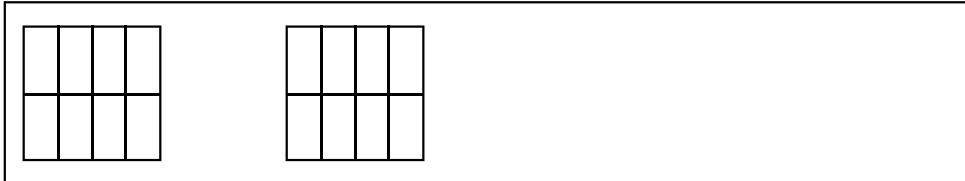
4.3 6282

The 6282 is a one row 24 source 4 level control panel with legendable buttons on plug in PCB assemblies. The panel is LED tallied and uses 24V or mains power. Communications between the control panel and router are via serial links type RS485 using Pro-Bel multi-drop protocol SW-P-06 or point to point protocol SW-P-05 depending on the application.



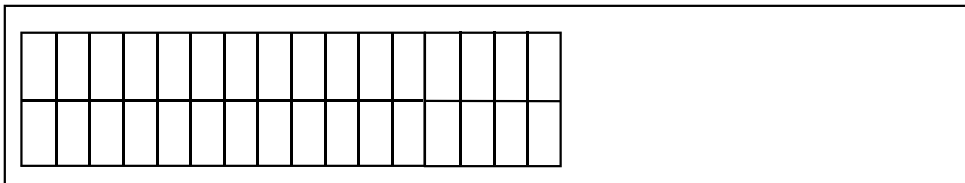
4.4 6283

The 6283 is a dual 8 source control panel with legendable buttons on plug in PCB assemblies which is LED tallied and uses 24V or mains power. Communications between the control panel and router are via serial links type RS485 using Pro-Bel multi-drop protocol SW-P-06 or point to point protocol SW-P-05 depending on the application.



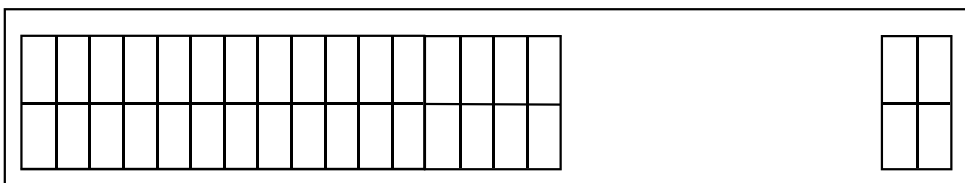
4.5 6284

The 6284 is a 32 button single row control panel with legendable buttons on plug in PCB assemblies. The panel is LED tallied and uses 24V or mains power. Communications between the control panel and router are via serial links type RS485 using Pro-Bel multi-drop protocol SW-P-06 or point to point Protocol SW-P-05 depending on the application.



4.6 6285

The 6285 is a one row 32 source 4 level control panel with legendable buttons on plug in PCB assemblies. The panel is LED tallied and uses 24V or mains power. Communications between the control panel and router are via serial links type RS485 using Pro-Bel multi-drop protocol SW-P-06 or point to point protocol SW-P-05 depending on the application.



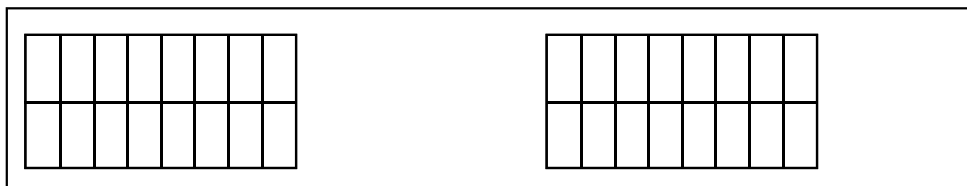
4.7 6286

The 6286 is a 16 button single row control panel with legendable buttons on plug in PCB assemblies which is LED tallied and uses 24V or mains power. Communications between the control panel and router are via serial links type RS485 using Pro-Bel multi-drop protocol SW-P-06 or point to point SW-P-05 depending on the application.



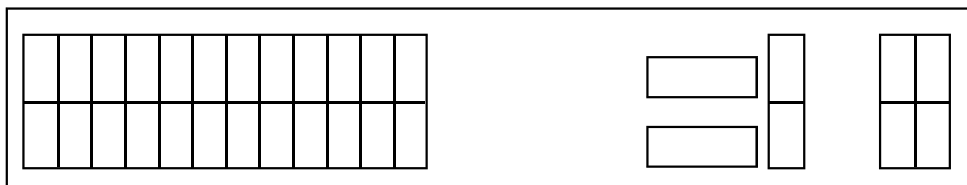
4.8 6287

The 6287 is a 16 source 16 destination control panel with legendable buttons on plug in PCB assemblies which is LED tallied and uses 24V or mains power. Communications between the control panel and router are via serial links type RS485 using Pro-Bel multi-drop protocol SW-P-06 or point to point protocol SW-P-05 depending on the application.



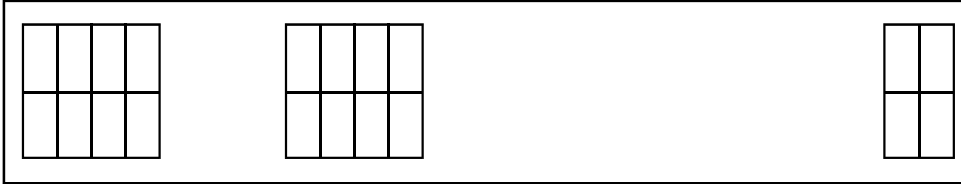
4.9 6288

The 6288 is a 24 source 4 level 2 destination assignable panel with legendable buttons on plug in PCB assemblies and uses 24V or mains power. Communications between the control panel and router are via serial links type RS485 using Pro-Bel multi-drop protocol SW-P-06 or point to point protocol SW-P-05 depending on application.



4.10 6289

The 6289 is a dual 8 source 4 level control panel with legenable buttons on plug in PCB assemblies. The panel is LED tallied and uses a 24V or mains power. Communications between the control panel and router are via serial links type RS485 using Pro-Bel multi-drop protocol SW-P-06 or point to point protocol SW-P-05 depending on the application.



5 Installation



WARNING: Mains voltages exist within this unit, do not remove covers or tamper with the unit with the mains connected.

5.1 Mechanical

The unit is housed in an aluminium case, 1 rack unit high, which is rack mountable in a standard 19" bay.

5.2 Mains Voltage

Check the mains voltage selector at the rear of the PSU is set correctly.

5.3 Self Test Program

Unless communication is made with the serial communication port a self test program runs continuously checking that all connections and handshakes are correct.

5.4 Panel Address

Ensure that the panel address switch SW1 is set correctly for the application required. For further information see the appropriate control system handbook.

5.5 Button Labels

5.5.1 Removal/Replacement

Button labels are removed/replaced by prizing off the clip on plastic keycap and placing the new label underneath prior to replacing the keycap.

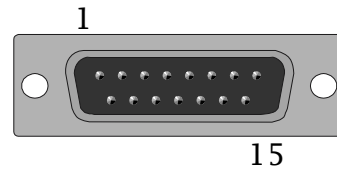
5.5.2 Standard Label Set

A standard button label set as shown in Drawing number 628822-A4 is available containing pre-printed button labels with a wide range of typical applications.

5.6 PL1 On 6701 Control Card Connector Pinout

24V d.c. Input, 15 way “D” type plug

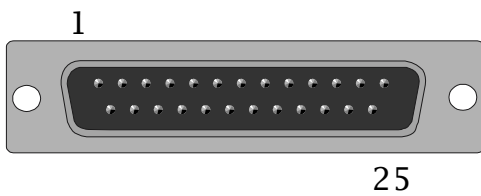
Pin	Function
1	+24V d.c.
2	+24V d.c.
3	+24V d.c.
4	+24V d.c.
5	+24V d.c.
6	+24V d.c.
7	+24V d.c.
8	+24V d.c.
9	0V
10	0V
11	0V
12	0V
13	0V
14	0V
15	0V



5.7 PL5 on 6701 Control Card Connector Pinout

Joystick overrides, 25 way right angle “D” type plug

Pin	Function	Pin	Function
1	N/C	15	N/C
2	N/C	16	N/C
3	N/C	17	N/C
4	N/C	18	0V
5	N/C	19	0V
6	OVERR8	20	0V
7	OVERR7	21	0V
8	OVERR6	22	0V
9	OVERR5	23	0V
10	OVERR4	24	0V
11	OVERR3	25	0V
12	OVERR2		
13	OVERR1		
14	N/C		





5.8 SK8 on 6701 Control Card Connector Pinout

RS422/485 Interface, 9 way "D" type socket

Pin	Function
1	CHASSIS
2	TX422-
3	RX422+
4	GND
5	N/C
6	GND
7	TX422+.
8	RX422-
9	CHASSIS

