

The Display Control Panel provides efficient I/O access for the user to control the door system, and for the technician to program the operational parameters of all record-usa door operators.

Logically arranged pushbuttons permit an intuitive operation of the door and navigation through the drive-specific menu structure. The backlit LCD display provides data and information regarding the status of the door using symbols and plain text messages.

The connection to the door control is via the 4-wire CAN bus built into the record products.

The technical specifications of the control panel are:

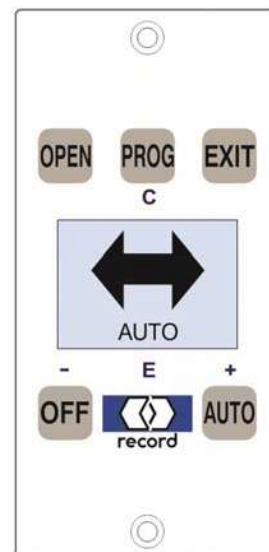
Supply voltage: 24 VDC from CAN bus

Connected load: < 2 W

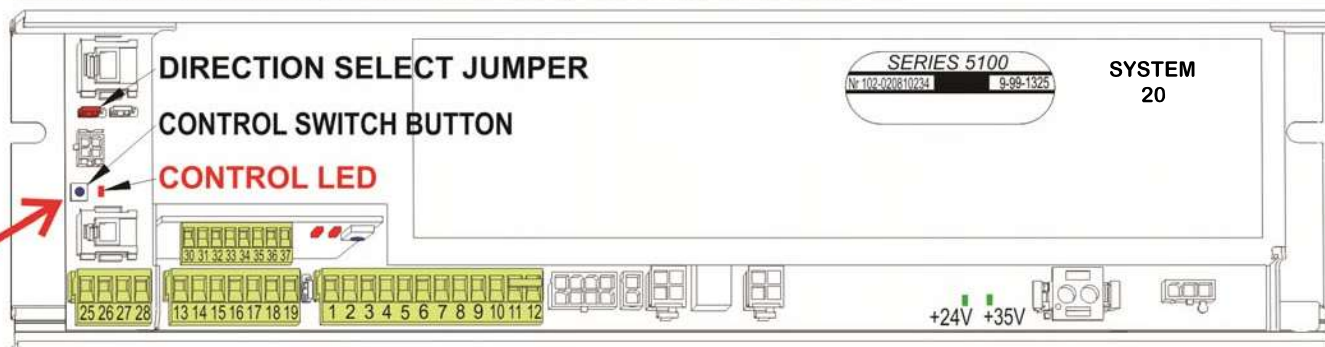
Dimensions: 1.74" X 3.63"

Temperature range: 0°C to +50°C

LCD display: 112 x 64 pixels (0.84" X 1.18"), with white backlight



In addition to providing the owner a method for selecting the door operating modes, the control panel can be used to access and adjust the door parameters. To enable this feature, first gain access to the door operator in the header, and locate the microprocessor door control. On the left side of the control is a small blue pushbutton (Control Switch Button), and a red LED. The pushbutton performs multiple functions depending upon how long it is pressed, as indicated by the number of flashes (1 second intervals) of the adjacent red LED.



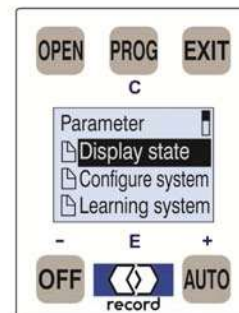
Pressing and holding the button causes the adjacent red Control LED to pulse "on" approximately once per second. The number of pulses determines the resulting effect:

- 1 pulse simulates the actuation of the interior sensor and initiates a door cycle.
- 2 pulses initiates an automatic acquisition of safety beam characteristics.
- 3 pulses initiates a door learn mode where the door weight and friction are learned.
- 4 pulses initiates a configuration mode where the Display Control Panel has access to the microprocessor control parameters.
- 8 pulses resets the parameters to the default parameters for door type selected.
- 9 pulses, combined with actuation of the breakout stop, will reset to factory settings.
- 14+ pulses performs a hardware reset (no parameter values are changed).

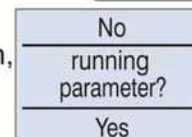
Typically, during a new installation, the microprocessor will have already been set at the factory for the door opening, **but the completed installation will require a calibration mode initiated by holding the Control Switch Button down for three pulses of the Control LED. Calibration will occur during the next two door cycles, which should be initiated immediately.**

ALTERNATIVE CALIBRATION METHOD:

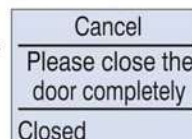
A convenient second method for calibration has been implemented using either the Display Control Panel or the FPC 902 Programmer. If using the FPC 902, select Service STG, select Yes to accept all parameters, press OK to Continue, then select Learning system. The next screens closely follow the screens described below. If using the Display Panel, press and hold the blue Control Switch Button for four flashes of the red Control LED, then release the button. The Display Control Panel should appear as shown at right. Use the AUTO button to scroll down and highlight "Learning system", then press the blue "record" logo.



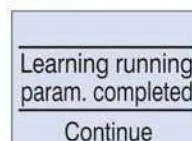
The screen at right will appear, press the "record" logo again, the door will open, with a screen indicating to wait until the door is completely open.



After the door fully opens, this screen will then display - Press and hold the "OFF" button until the door fully closes. Once closed, the door will re-open and this screen will appear again.



Press the "OFF" button until the door closes, and the screen at right will appear. Press the "record" logo to continue.



In response to the screen displaying "Learning sensors?", press the "PROG" button to decline. In response to the screen displaying "Learning suppression SIO?", press the "PROG" button again to decline. The calibration cycle will then be completed.

PARAMETER ADJUSTMENTS:

The parameters that define the door performance can be accessed using either the FPC 902 Hand-Held Programmer or the Display Control Panel.

For access to all the parameters with the FPC 902, Version 2.71 or later software is required.

To access the control parameters using the Display Control Panel, on the door control press and hold the Control Switch for 4 flashes of the adjacent red Control LED.

In this mode, the top center "PROG" switch and bottom three switches are used to select and modify the door parameters.

Note the small blue legends next to each switch indicates its use in the configuration mode -
 Use the "+" (AUTO) switch to scroll down menus, or increase individual parameter values.
 Use the "-" (OFF) switch to scroll up menus, or decrease parameter values.
 Use the "E" (record) switch to select the currently selected parameter or parameter value.
 Use the "C" (PROG) switch to revert to the previous screen.

Included in the header should be a two-sided sheet identifying the Control Parameters and the factory settings for that header. Any field changes should be noted as they are implemented.

A complete listing of the parameters with descriptions is included with the Installation Instructions.

To exit the parameter adjust mode, press the "C" (PROG) multiple times until the "Exit Program Mode - Yes/No" screen appears; press the "E" record switch to return to Door Operating Mode screens.

Note: If no button is pressed for 3 minutes, the parameter adjust mode is automatically exited.

Entering a custom telephone number to be displayed when alarm screens occur can be performed only with the FPC 902 Programmer. Refer to the instructions included with it for further details.