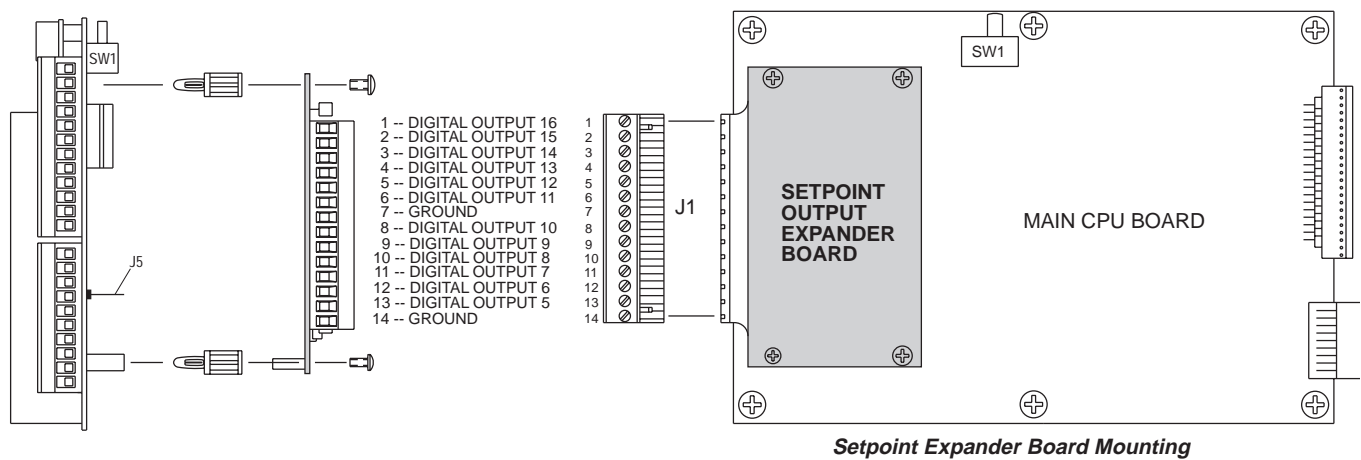


SETPOINT EXPANDER OPTION

There are four standard digital outputs on the Main Board designed primarily to be switch-closure outputs used for controlling relays. The Setpoint Expander Board adds 12 more digital output terminals to bring the total to 16. Like the original digital outputs, each of these is an open-collector circuit capable of sinking 250mA when "ON" and withstanding +40 VDC when "OFF". In addition, resistor pull-ups to +5 V are provided, making the outputs capable of driving TTL or 5V CMOS logic directly without the need for any additional circuitry. The logic levels are active low. For example, a TTL low level indicates the output is "ON", and a high level indicates the output is "OFF".

The Setpoint Expander Board mounts on standoffs on the component side of the Main Board. An 8-pin male terminal (J5 on the Main Board), plugs into a socket on the Setpoint Expander Board as it is being mounted on the standoffs. For reference purposes, the J5 connector pinouts are shown at the bottom of the page. With the IQplus 810 Desktop model, it will be necessary to temporarily remove the Main Board from its mounted position to gain enough clearance to install the Setpoint Expander Board. The Main Board can then be re-attached in its original position. With the HE of SS models, the Setpoint Expander can be mounted with the Main Board in place.

When wiring the setpoints to the digital out terminals, remember that digital outputs 1-4 remain on the J4 terminal of the Main Board, and 5-16 are on the J1 terminal of the Setpoint Expander Board.



**Connector Pinout, J5 (Main Board)
to Setpoint Expander Board**

- J5-1 +5D
- J5-2 DOUTSTB
- J5-3 RESET
- J5-4 DOUTCLK
- J5-5 SDOUT
- J5-6 GND
- J5-7 HGND
- J5-8 HGND