UDC 3200 Application Note

Switching between a Remote & Local Setpoint with a Digital Input

Solution: Specify a UDC 3200 with a Digital Input Option.
When a digital input is configured for **To LSP**, the UDC will switch from Remote SP to a Local SP with a contact or switch closure.
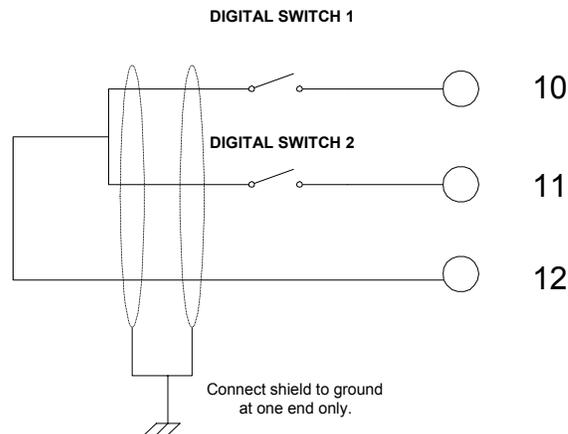
Configuration:
        Setup Control : **LSP'S** set to **ONE**
                              RSP SRC set to **IN 2**
        Setup Option : **DIG1 INP** or **DIG2 INP** is set to **To LSP**

Wiring :

DIGITAL SWITCH 1

10

DIGITAL SWITCH 2

11

12

Connect shield to ground
at one end only.

Operation:
1. Make sure that the Digital Input Switch is open and Remote SP is selected
2. Set the desired setpoint for Local SP using the Lower Display & arrow keys.
3. With the Digital Input Switch closed, SP will be displayed on the Lower display.
4. When the Digital Input Switch is re-opened the bar next to the left of the RSP will light, and the Remote SP will be the controlling setpoint.

Notes:
1. If the **Setpoint Select is enabled**, then someone can override the Digital Input by pressing the SP Select key.
     A suggested correction is, prior to doing step 3 in the operation section, go to Tuning Group and set the Lockout to None. Keep pressing the Function key until **SP SEL** appears in the lower display. Set the Upper Display to **DISABLE**.
     With the Setpoint Select set to disable, the unit can not be switched to Local SP by the keyboard.

2. A **different set of Tuning constants** can be selected when Local SP is selected. If Two sets of Tuning constants are selected under the Control section, then by using the **DIG 1 CMB** or **DIG 2 COMB** set to *+PID 2* then PID set 2 tuning values will be used when SP is selected.