UDC 3200 Application Note

Switching between a Two Local Setpoint with a Digital Input

Solution: Specify a UDC 3200 with a Digital Input Option.
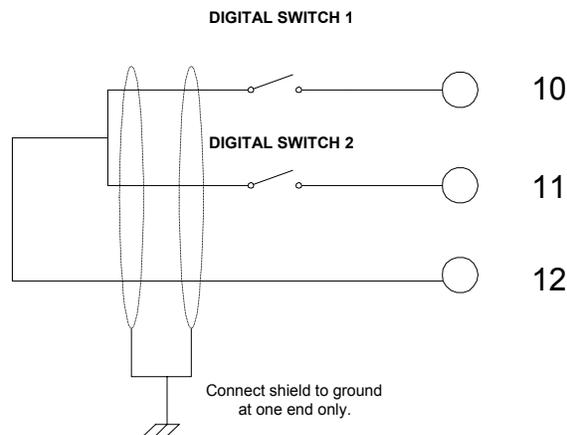The UDC will switch from SP to 2SP with a contact or switch closure.

Configuration:
Setup Control : **LSP'S** set to **TWO**
Setup Option : **DIG1 INP** or **DIG2 INP** is set to **To 2SP**

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.
2. Set the desired setpoint for both SP's using the Lower Display & arrow keys.
3. With the Digital Input Switch closed, 2SP will be displayed on the Lower display.
   A flashing bar indicator will appear to the left of 2SP.
4. When the Digital Input Switch is re-opened the lower display will switch back to SP.

Notes:
1. If the **Setpoint Select is enabled**, then someone can override the Digital Input by
   pressing the SP Select key. (SP Indicator always stays on to the left of 2SP)
      * A suggested correction is prior to doing step 3 in the operation section, go to
       Tuning Group and set the Lockout to None. Press 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 cannot be switched to Local SP
       by the keyboard.

2. A **different set of Tuning constants** can be selected when the 2 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 CMB** set to + **PID 2** then, PID set 2 tuning values will be
       used when SP2 is selected.