



UDC 3500 Application Note

Switching between a Two Local Setpoint with a Digital Input

Solution: Specify a UDC 3500 with a Digital Input Option.

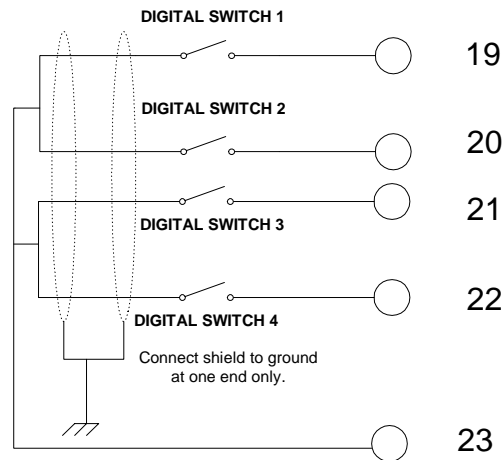
The UDC will switch from SP to 2, 3 or 4SP with a contact or switch closure.

Configuration:

Setup – Control - LSP'S set to Two, Three or Four

Setup – Option – DIG INP 1 2, 3 or 4 is set to 2SP, 3SP or 4SP respectively

Wiring :



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, remote selected SP will be displayed on the Lower display. A flashing bar indicator will appear to the left of remote selected SP and the active Digital Input appears to the right of the DI bezel legend .
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, 3SP or 4SP)
 - * 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 the remote SP is selected.