UDC 2500 Application Note

Switching between a Remote & Local Setpoint with a Digital Input

Solution: Specify a UDC 2500 with a Digital Input Option.
Model #   _DC230B-XX-2X-XX-XXXXXXX-XX-0_
When **DIG IN 1** or **DIG IN 2** is configured for **To LSP**, the UDC will switch
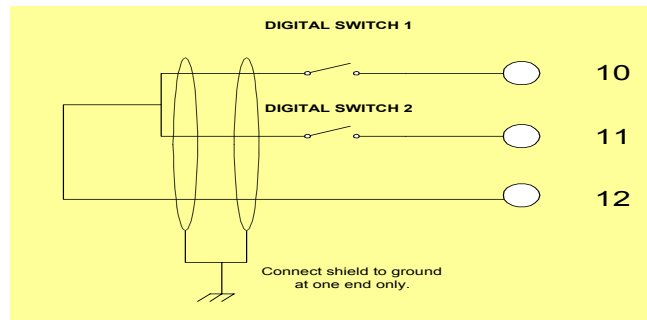from Remote SP to a Local SP with a contact or switch closure.

Configuration:
Setup <u>Control</u> : **SP Sourc** set to **1 Local**
                    RSP SRC set to **IN 2**
Setup <u>Option</u> : **DIG IN 1** or **DIG IN 2** is set to **To LSP**

Wiring :

Operation:
1. Make sure that the Digital Input Switch is open and Remote SP is selected.
   ("R" should be displayed.)
2. Set the desired setpoint for Local SP using the Lower Display & arrow keys.
3. With the Digital Input Switch closed, the RSP bar will go blank. SP will be
   displayed on the Lower display and will now be the controlling at the Local setpoint.
4. When the Digital Input Switch is re-opened the RSP bar will light, and the Remote SP
   will be the controlling setpoint.

Notes:
1. If the **<u>Setpoint Select is enabled</u>**, then someone can override the Digital Input by
   pressing this key. (RSP Indicator always stays on)
      * 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 **DISABL**.
      With the Setpoint Select set to disable, the unit cannot be switched to Local SP
      by the keyboard.

2. A **<u>different set of Tuning constants</u>** 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 COM** or **DIG 2 COM** set to **+_PID 2_** then PID set 2 tuning values will be
      used when SP2 is selected.