



UDC 2500 Application Note

Switching between a Remote & Local Setpoint with a Digital Input

Solution: Specify a UDC 2500 with a Digital Input Option.

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.

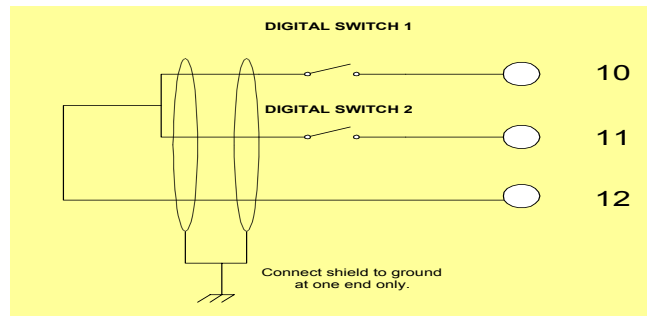
Configuration:

Setup Control : **SP Source** set to **1 Local**

RSP SRC set to **IN 2**

Setup Option : **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 R 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 R 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 this key. (R 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 **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 COM** or **DIG 2 COM** set to **+PID 2** then PID set 2 tuning values will be used when SP2 is selected.