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-XXXXXX-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 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 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 Setpoint Select is enabled, 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 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.