

# UDC 1000/1500

## ON/OFF TUNING

An “ON/OFF” controller has a switching **Hysteresis** that is used to define switching thresholds where the unit will change its output status.

- Decreasing the **Hysteresis** will cause the output relay to turn on and off more frequently (faster cycling) and hold the temperature closer to the set point.
- Increasing the **Hysteresis** will cause the output relay to turn on and off less frequently (slower cycling) and increase the temperature cycling above and below the set point.

In the UDC 1000/1500 the Hysteresis is achieved by setting the **PB1 = 0** then adjusting the **diF1** value. This value is set in percent of the Input 1 span

### Example

Input 1= J thermocouple (Code 1418), IN1 HI =842°, IN1 LO = 32°,  
Input 1 Span = 842°-32° = 810°

**Set point = 500°**

**Hyst = 1.0% = .01 x 810 = 8.1°**

