



UDC 2500 Application Note

UDC 2500 AS AN AUTO/MANUAL STATION

SEVERAL CUSTOMERS HAVE LEARNED THAT THE UDC2500 IS AN EXCELLENT AUTO -MANUAL STATION FOR USE AS A HARD MANUAL BACK-UP BETWEEN A CONTROLLER AND THE FINAL CONTROL ELEMENT ON CRITICAL LOOPS.

- * WHEN IN AUTOMATIC, THE UDC 2500 PASSES THE LOOP CONTROLLER'S OUTPUT DIRECTLY THROUGH TO THE CONTROL ELEMENT.
- * WHEN PLACED IN MANUAL THE UDC 2500 OUTPUT CAN BE ADJUSTED TO PLACE THE CONTROL ELEMENT IN ANY DESIRED POSITION AND HOLD IT THERE.
- * THE DIGITAL INPUT OPTION CAN BE USED TO REMOTELY PLACE THE UDC 2500 IN MANUAL MODE-IF DESIRED.

THE UDC 2500 SHOULD BE CONFIGURED AS FOLLOWS:

SET-UP CONFIGURATION

TUNING

GAIN = 1.0
 RATE = 0
 MANUAL RESET = 0

CONTROL ALGORITHM

PD+MR

INPUT

ACTUATION = 4-20MA
 TRANSMITTER = LINEAR
 INPUT 1 HI = 100.0
 INPUT 1 LO = 0.0

CONTROL:

OUTPUT DIRECTION =DIRECT

LOCAL SP IS TO BE SET TO "0"

WIRING DATA

1. 4-20 MA OUTPUT FROM CONTROLLER IS TO BE WIRED TO UDC 2500 INPUT TERMINALS 26 AND 27.
2. UDC 2500 4-20 MA CONTROL OUTPUT, THERMINALS 2 AND 3 ARE TO BE WIRED TO FINAL CONTROL ELEMENT.