

UDC 2300 APPLICATION NOTE

MODEL - DC230B-CX-XA OR DC230B-CX-XB

UDC 2300 AS AN AUTO/MANUAL STATION

Several customers have learned that the UDC 2300 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 2300 passes the loop controller's output directly through to the control element.

When placed in Manual the UDC 2300 output can be adjusted to place the control element in any desired position and hold it there.

When the unit is purchased with the a "optional" alarm relay contact, this can be used to give a remote device a indication when the unit is in the "Manual" mode.

THE UDC 2300 SHOULD BE CONFIGURED AS FOLLOWS:

HARDWARE

Set the Input 1 jumper for 4-20 mA Input (Position 4).

SET-UP CONFIGURATION

CONTROL ALGORITHM

PD+MR

INPUT

INPUT 1 TYPE = 4-20 MA
INPUT 1 HI = 100.0
INPUT 1 LO = 0.0

CONTROL:

OUTPUT DIRECTION = DIRECT
SP HI = 0
SP LO = 0

TUNING

GAIN = 1.0
RATE = 0
MANUAL RESET = 0

WIRING DATA

1. The 4-20 mA output from controller is to be wired to UDC 2300 input terminals **8 (+)** and **7 (-)**.
2. The UDC 2300 4-20 mA control output, terminals **5 (+)** and **4 (-)** are to be wired to final control element.