



THIS PRODUCT MUST BE ASSEMBLED WITH COMPONENTS AND SOLDERING PROCESS COMPLIANT WITH DIRECTIVES AND LAWS PERTAINING TO HAZARDOUS SUBSTANCES AS DEFINED ON NCC-SP124-011, NOTE 1.

Operating Logic:
 The T2010 is a 10 output sequencer with an adjustable ON TIME and an adjustable OFF TIME. Upon application of power to the L1 and L2 terminals with the high pressure switch contacts closed, the ON TIME is initiated. At the end of the preset ON TIME, the output will turn off for the preset OFF TIME. The control will cycle through all selected outputs until the high and low pressure switch contacts are opened. If the pressure switch contacts open during the ON TIME, the output will complete the active ON cycle. The next time the high pressure switch is closed the next output in the sequence is fired. Pressure monitoring with no hysteresis is achieved by using only a high pressure switch. Placing a jumper across the high pressure input forces the control to run continuously.

Programming:
 Programming is accomplished using 3 buttons: down, up, and select
 Down: Decrements active parameter
 Up: Increments active parameter
 Select: Toggles amongst the adjustable parameters: on-time, off-time, and last output
 Programming Mode Timeout: 60 seconds

Test & Default Modes:
 Test mode is entered by pressing and holding the select button for 3 seconds while the unit is in the normal operating mode. Once in test mode, the display will show tSt. Pressing the up or down arrow buttons toggles amongst outputs, and pressing select pulses the selected output for the preset ON-TIME. Pressing the select button while the display shows tSt will change the display to "dFt". While the display shows "dFt", the up and down arrows toggle amongst "y", "n", and "dFt". Pressing select when the message is "y" will set all adjustable parameters to the factory defaults. At any time in test and default modes, pressing and holding the select button for 1.5 seconds will revert the controller back to the normal operating mode.

- Specifications:**
 Input Voltage: 10 VDC TO 29VDC
 Max Power Consumption: 3.5W
 Circuit Protection: 3.15A fuse and 9J metal-oxide varistor at input.
 Output: Solid state, 3AMP max
 Off State Leakage 10uA max
 On State Voltage Drop: 1.5V max
 Pressure Switch: Open Circuit Voltage 3.5VDC
 Closed Circuit Current: 30mA max
 Operating Temperature: -40 to +150 F (-40 to +66 C)
 Conformally coated with RTV to protect against moisture, corrosion, and vibration
 Display: 3 digit, 7 segment, green LED
 Indicator LEDs: 5 green SMT (power, cleaning, on time, off time, last output)
 On Time: 50 milliseconds - 600 seconds
 Off Time: 1 - 999 seconds
 Resolution:
 10ms (50ms - 10sec)
 100ms (10sec - 100sec)
 1sec (100sec - 600sec)
 Accuracy and Repeatability: ±3% over temperature and voltage range
- Default Settings:**
 On Time: 50 milliseconds
 Off Time: 15 seconds
 Last Output: 10

NOTE: UNIT IS SHIPPED WITH JUMPER ACROSS "HI" PRESSURE SWITCH TERMINAL BLOCK.

SYM	REVISION	DATE	BY	CH	SYM	REVISION	DATE	BY	CH
A	ECO #70335				540/gd	RC			

RESTRICTED, CONFIDENTIAL, DOCUMENT THIS DRAWING AND ALL INFORMATION SHOWN HEREON ARE THE EXCLUSIVE PROPERTY OF AMETEK INC. AND ARE SUBMITTED ONLY ON A CONFIDENTIAL BASIS. THE RECIPIENT AGREES NOT TO REPRODUCE THE DRAWING OR THE INFORMATION SHOWN HEREON WITHOUT THE WRITTEN CONSENT FROM AMETEK INC.	AMETEK ncc NATIONAL CONTROLS CORPORATION WEST CHICAGO, IL 60185		
SCALE NONE TOLERANCES DECIMAL ±.005" FRACTIONAL ±.010" ANGULAR ±1°			
DRAWING NAME SPECIFICATION	PART NO. DNC-T2010-BDC		
DR. LCI	DATE	CH	APP.
REV. A			