

DUSTRONIX™ Core-10/Expander-10 Dust Collector Controls

Models DNC-T2610-010/020

FEATURES

- *Communicates via 2 wire CANbus network*
- *Universal input voltage 100-240 VAC, 50/60 Hz*
- *10 outputs on-board, expands to 990 outputs (with expansion boards)*
- *Solenoid current sense:*
 - *allows automatic system setup*
 - *senses 3 solenoids per output*
 - *monitor up to 2970 solenoids*
- *Diagnostic/program LEDs for “at-a-glance” system status indication*
- *Settable to read 0-10, 0-15, and 0-25 inches of differential pressure*
- *Finger-safe terminations*

CORE-10 UNIQUE FEATURES

- *Simple one knob programming*
- *Non-volatile memory for program and status storage*
- *On-Demand operation:*
 - *with external pressure switch (not included)*
 - *with external pressure sensor (not included)*
 - *source/sink 4 to 20 mA sensor input*
- *3-digit, 7-segment alpha-numeric display*
- *Settable alarm output relay normally open or normally closed*

The Core-10 is the main control module in the DUSTRONIX line. The Core-10 is capable of operating as a standalone module controlling 1 to 10 solenoids, or in combination with the Expander-10 for up to 98 expansion modules for a total of 990 outputs. The Expander-10 is the expansion output board in the DUSTRONIX family. The Expander-10 operates in combination with the Core-10 Control Module.

The Expander-10 communicates with the Core-10 on a twisted pair of wires using CANbus architecture which provides robust noise immunity. Two rotary switches on the Expander-10 are used to set and provide visual indication of the address assigned.

The Core-10 can operate in On-Demand mode with input from an external pressure sensor (4 to 20 mA) or a pressure switch (not included), or it can operate in the Continuous mode by use of a jumper across the pressure switch input. A switch can also be connected to the pressure switch input to act as a bypass switch. Input for a cycle down switch is also provided to allow for end-of-operation cleaning.

A unique feature of the Core-10 is its simple one-button programming. This single push-button/encoder is used to select operating parameters. LEDs indicate program function. The push-button is also used to view alarm conditions and cancel the alarm output. Operating and programming information is displayed on a 3-digit 7-segment display. The compact size of the Core-10 and the Expander-10 allows mounting in enclosures as small as 8" x 6".

Programmable Parameters:

- *Solenoid ON-Time/OFF-Time*
- *Number of cycle down cycles*
- *Cycle down time delay*
- *Run/Standby: enable/disable outputs*
- *Differential pressure high setpoint/low setpoint*
- *Differential pressure high alarm setpoint/low alarm setpoint*
- *Alarm contact (normally open or normally closed)*
- *Differential Pressure Sensor Select: 10, 15, 25 in. w.c.*
- *Output: 1 to 990 manual or auto-configured*

Status LEDs: when illuminated

- *Differential Pressure: Display indicates ΔP*



- **Output:** Display indicates current output
- **Alarm (System Status):** ΔP or Solenoid Fault
- **Output Pulsing:** Display indicates output being pulsed
- **Cycle Down:** Unit in cycle down mode
- **Output Status:** Unit pulsing solenoids
- **CANbus Status:** CANbus transmission activity

DUSTRONIX “Kit” Configurations

1. **DNC-T2610-N4A:** Includes Core-10, PS700, 3-position metal enclosure with cutouts, bulk-head fittings, mounting chassis, mounting
2. **DNC-T2610-N4XA:** Same as above but mounted in fiberglass enclosure
3. **DNC-T2610-N4B:** Same as Kit 1 but also includes Expander-10 module
4. **DNC-T2610-N4XB:** Same as Kit 3 but mounted in fiberglass enclosure

ORDERING INFORMATION

INPUT VOLTAGE	PART NUMBER
100 to 240 VAC	DNC-T2610-010
100 to 240 VAC	DNC-T2610-020

ACCESSORY	DIMENSIONS	PART NUMBER
Enclosure for DNC-T2610-010	10" x 8" x 6"	BOX-A1008-CHSC
		BOX-A1008-CHNF

6. Do not allow a local repair shop to repair the controls, as we employ some very sophisticated components that could be further damaged. For service, call us directly: 800-323-2593.