4-4

DUST COLLECTOR CONTROLS

AC Input, Pulse Cleaning of Bag House Dust Collectors

Models DNC-T2003 through DNC-T2032

FEATURES

- Digital Timing Circuitry: allows for stable timing from -40°C to 65°C temperature range
- Pulse Time: line synchronized to eliminate 8 millisecond triac turn off variation
- 10 A-400/600V Output Triacs: for maximum protection against output shorts.
 200 VA load rating
- Conformally coated for protection against vibration, humidity, and contamination
- 2 Modes of Operation: can be operated Continuously or On Demand via external pressure switch
- Field Selectable: for numbers of outputs required
- LED Indicators: for compartment being cleaned indication
- Rugged Timing Adjustments: large stable potentiometers are used for ON and OFF time adjustments
- Metal Chassis Provided: for mounting directly into NEMA 4 box
- Timer Functionally Tested for 24
 Hours: to eliminate field failures
- Input Protection: 30 joule metal oxide varistor
- One Year Warranty: warranted to be free from defects in materials or workmanship for one year from date of manufacture
- 🔊 File #E65038

Operating Logic: The control can function in 2 modes.

In Continuous Mode, the pressure switch terminals are shorted. Upon application of input voltage, the control activates output #1 after the preset off time. It will continue to activate outputs sequentially until input voltage is removed.

In On Demand Mode, the pressure switch terminals are connected to an isolated set of contacts of a differential pressure switch. The control will activate the outputs sequentially whenever the pressure switch contacts are closed. When the pressure switch contacts open, the output sequencing stops. Re-closing of the contacts will cause the control to resume activating the outputs.

Program wire allows the user to select the maximum number of outputs to be activated.

Note: Controls are shipped with jumper across pressure switch terminals

SPECIFICATIONS

TIME DELAY

ON-Time: Adjustable from 50 to 500 ms

OFF-Time:

Range A: adjustable from 1.5 to 30 seconds Range B: adjustable from 8.5 to 180 seconds Note: Range S designates customer specified time range. Consult factory for parameters

Repeatability: ±3% over temperature and voltage ranges

INPUT

Operating Voltage: 120 ±10%, 220 ±10% VAC

Frequency: 50/60 Hz

Power Consumption: 2 VA max.

OUTPU'

Type: Solid state switch (triac)

Switch Rating: 200 VA maximum per output

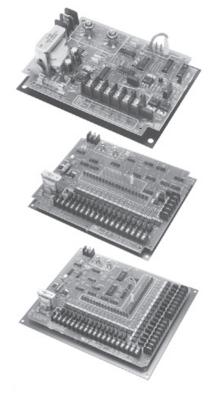
PROTECTION

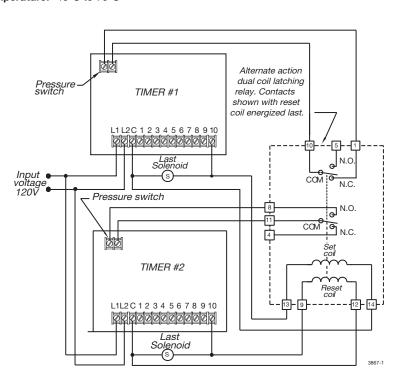
Transient Voltage: 30 joule metal oxide varistor

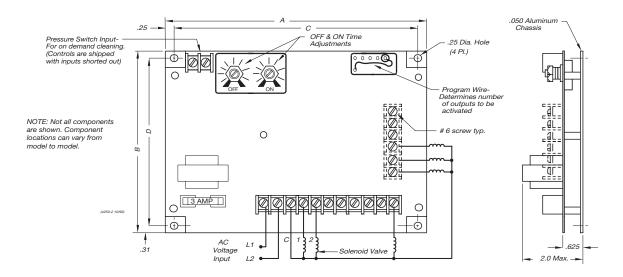
Short Circuit Protection: 3 A fuse

ENVIRONMENTAL

Operating Temperature: -40°C to 65°C **Storage Temperature:** -40°C to 70°C







ORDERING INFORMATION

MAX. NO. OF OUTPUTS			SIONS C D	,	SIZE OF NEMA 4 ENCLS. REQUIRED	PROGRAM- MABLE NO. OF OUTPUTS	OFF TIME	PART NUMBER	
DNC-T2003	DNC-T2003 THROUGH DNC-T2032 120 VAC INPUT VOLTAGE								
3	6.75 4.87	7.5	6.05	4.25	8" x 6" x 3.5"	1-3	1.5 to 30 sec.	DNC-T2003-A10	
	0.75 4.07	5	6.25				8.5 to 180 sec.	DNC-T2003-B10	
6	0.75 6.0	7.5	0.05	6.25	10" x 8" x 4"	2-6	1.5 to 30 sec.	DNC-T2006-A10	
6	8.75 6.87	5	8.25				8.5 to 180 sec.	DNC-T2006-B10	
40	8.75 6.87	,,	0.05	6.25	10" x 8" x 4"	3-10	1.5 to 30 sec.	DNC-T2010-A10	
10	8.75 6.87	5	8.25				8.5 to 180 sec.	DNC-T2010-B10	
	40.75 0.05	,_	40.05	8.25	12" x 10" x 5"	11-20	1.5 to 30 sec.	DNC-T2020-A10	
20	10.75 8.87	5	10.25				8.5 to 180 sec.	DNC-T2020-B10	
	10.75 10.0	7.5	40.05	10.25	14" x 12" x 6"	17-32	1.5 to 30 sec.	DNC-T2032-A10	
32	12.75 10.8	/5	12.25				8.5 to 180 sec.	DNC-T2032-B10	
DNC-T2006	DNC-T2006 THROUGH DNC-T2032 220 VAC INPUT VOLTAGE								
_	0.75 0.05	,_	0.05	6.25	10" x 8" x 4"	2-6	1.5 to 30 sec.	DNC-T2006-A220	
6	8.75 6.87	5	8.25				8.5 to 180 sec.	DNC-T2006-B220	
10	0.75 0.05	,,	8.25	6.25	10" x 8" x 4"	3-10	1.5 to 30 sec.	DNC-T2010-A220	
	8.75 6.87	5					8.5 to 180 sec.	DNC-T2010-B220	
	10.75 0.05		10.25	8.25	12" x 10" x 5"	11-20	1.5 to 30 sec.	DNC-T2020-A220	
20	10.75 8.87	5					8.5 to 180 sec.	DNC-T2020-B220	
32	10.75 10.0	7.5	12.25	10.25	14" x 12" x 6"	17-32	1.5 to 30 sec.	DNC-T2032-A220	
	12.75 10.8	75					8.5 to 180 sec.	DNC-T2032-B220	

Note: Special time ranges are available with the following maximum to minimum time ratio restrictions: ON Time-10:1; OFF Time-20:1

ACCESSORY	DIMENSIONS	PART NUMBER
Enclosure for DNC-T2003	8" x 6" x 3.5"	BOX-A0806-CHNF
Enclosure for DNC-T2006	10" x 8" x 4"	BOX-A1008-CHNF
Enclosure for DNC-T2010	10" x 8" x 4"	BOX-A1008-CHNF
Enclosure for DNC-T2020	12" x 10" x 5"	BOX-A1210-CHNF
Enclosure for DNC-T2032	14" x 12" x 6"	BOX-A1412-CHNF

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ACCESSORY	DIMENSIONS	PART NUMBER
Pilot Lamp	NEMA 4 Rated Red Light	ASL-00RED-NEMA-4
On/Off Switch	NEMA 4 Rated with Legend Plate	MSW-0DPST-001
Alternate Action Dual Coil Latch Relay	_	KDD-LATCH-120AC
Socket For Latch Relay	_	MSO-0D11P-012

AMETEK NCC offers NEMA 4 type enclosures for mounting our controls. These enclosures are made of heavy gauge steel and have a continuous hinge cover. All seams are continuously welded. The finish is gray hammer-tone enamel inside and out, over phosphatized surfaces.

Caution:

- 1. Do not mount controls in high vibration areas without shock mounts.
- Do not mount controls in areas of high dust or corrosive atmospheres without a protective enclosure.Do not use a converter or inverter for the power source.
- 4. Do not mount control in high transient voltage areas without an isolation transformer.
- 5. Do not leave control box open.
- 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.