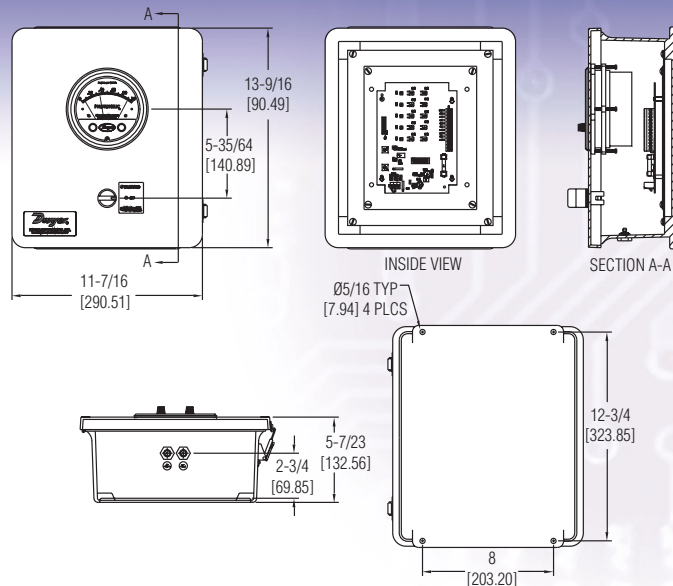




Photohelic® On-Demand Cleaning Controller

Reverse Pulse-Jet Cleaning Initiated by Differential Pressure



The Photohelic® On-Demand Cleaning Controller provides a simple, complete dust collection control all in one enclosure. The Photohelic® combined with the DCT500DC Timer Control provides a timed energization of solenoid valves when the differential pressure indicates filter cleaning is necessary. The operator can easily set the cleaning initiation and duration by adjusting the 2 set point knobs on the front face of the Photohelic®. Solenoid valve sequencing is also easily set via two potentiometers inside the enclosure on the timer board. A three position switch on the front of the enclosure offers cleaning versatility by allowing the user to select between on-demand or continuous manual cleaning. The Photohelic® is pneumatically connected with tubing to fittings on the enclosure. All that is required for start-up is connection of tubing from the process to the external fittings on the enclosure, and wiring the solenoid valves to the timer board.

CONTROLLER FEATURES

- External, manual adjustment of set points with Photohelic® adjustment knobs.
- On and off times easily set with 2 potentiometers located on the DCT500DC timer board.
- 3 position switch for selecting between On-Demand Cleaning or continuous manual cleaning.
- Photohelic® pre-connected with tubing to pressure fittings on body of enclosure.

POPULAR MODELS

MODEL NUMBER	RANGE*
DCTE504DC-3010MR	10" w.c.
DCTE506DC-3010MR	10" w.c.
DCTE510DC-3010MR	10" w.c.

* For other ranges and engineering units contact factory.

DCT500DC SPECIFICATIONS

- Output Channels:** 4, 6, & 10 channels.
- Power Requirements:** 10 to 35 VDC, 0.6 watt max. no load power.
- Solenoid Supply:** 3A max. per channel.
- Fuse:** Type 3 AG, 3A @ 250 VAC.
- Temperature Limits:** -40 to 176°F (-40 to 80°C).
- Storage Temperature Limits:** -40 to 176°F (-40 to 80°C).
- On Time:** 50 msec to 500 msec.
- On Time Accuracy:** ±5% of setting.
- Off Time:** 1 second to 200 seconds.
- Off Time Accuracy:** ±5% of setting.
- Weight:** 9 oz (255 g).

PHOTOHELIC® SPECIFICATIONS GAGE SPECIFICATIONS

- Service:** Air and non-combustible, compatible gases.
- Wetted Materials:** Consult Factory.
- Accuracy:** ±2% of full scale (3000-0 ±3% of full scale).
- Pressure Limits:** -20" Hg. to 25 psig (-0.677 bar to 1.72 bar). MP option; 35 psig (2.41 bar), HP option; 80 psig (5.52 bar).
- Temperature Limits:** 20 to 120°F (-6.67 to 48.9°C).
- Process Connections:** 1/8-27 female NPT (duplicated side and back).
- Size:** 4" (101.6 mm) dial face, 5" (127mm) O.D. x 3-1/8" (79.38 mm).
- Weight:** 1.8 lb (816 g).

SWITCH SPECIFICATIONS 3000MR

- Switch Type:** Each setpoint has a 1 Form C relay (SPST).
- Relay Contacts:** (resistive load) 1 Form C rated 1.0A @ 30 VDC, 0.3A @ 110 VDC or 0.5A @ 125 VAC. Gold over clad silver - suitable for dry circuits.
- Electrical Connections:** 18" (46 cm) cable assembly with 8 conductors. Optional lengths to 100' (30.5 m).
- Power Requirements:** 24 VDC, regulated ±10%.
- Mounting Orientation:** Diaphragm in vertical position. Consult factory for other position orientations.
- Set Point Adjustment:** Adjustable knobs on face.