This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.
Process owners/operators have important responsibilities relating to combustible hazards. Process owners/operators must determine whether their process creates combustible dust, fume, or mist. If combustible dust, fume, or mist is generated, process owners/operators should at a minimum:

- Comply with all applicable codes and standards. Among other considerations, current NFPA standards require owners/operators whose processes involve potentially combustible materials to have a current Hazard Analysis, which can serve as the foundation for their process hazard mitigation strategies.
- Prevent all ignition sources from entering any dust collection equipment.
- Design, select, and implement fire and explosion mitigation, suppression, and isolation strategies that are appropriate for the risks associated with their application.
- Develop and implement maintenance work practices to maintain a safe operating environment, ensuring that combustible dust, fume, or mist does not accumulate within the plant.

Donaldson recommends process owners/operators consult with experts to insure each of these responsibilities are met.

As a manufacturer and supplier of Industrial Filtration Products, Donaldson can assist process owners/operators in the selection of filtration technologies. However, process owners/operators retain all responsibility for the suitability of fire and explosion hazard mitigation, suppression, and isolation strategies. Donaldson assumes no responsibility or liability for the suitability of any fire and/or explosion mitigation strategy, or any items incorporated into a collector as part of an owner/operators hazard mitigation strategy.

Improper operation of a dust control system may contribute to conditions in the work area or facility that could result in severe personal injury and product or property damage. Check that all collection equipment is properly selected and sized for the intended use.

DO NOT operate this equipment until you have read and understand the instruction warnings in the Installation and Operations Manual. For a replacement manual, contact Donaldson Torit.

This manual contains specific precautionary statements relative to worker safety. Read thoroughly and comply as directed. Discuss the use and application of this equipment with a Donaldson Torit representative. Instruct all personnel on safe use and maintenance procedures.
Contents

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DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE is used to address practices not related to personal injury that may result in damage to equipment.

Data Sheet

Model Number ___________________________________ Serial Number ___________________________________

Ship Date _________________________________________ Installation Date ________________________________

Customer Name __________________________________

Address ___________________________________________

_________________________________________________

Filter Type _________________________________________

Accessories _________________________________________

Other ______________________________________________
Description

The Delta P Plus controller continuously monitors and displays differential pressure drop in inches of water or decaPascals on the panel face. When combined with a pulse timer, it can control the collector cleaning mechanism to maintain the differential pressure drop within chosen limits. Three cleaning modes are available along with an alarm function and a 4 – 20 mA signal output.

Operation

Three cleaning modes, Differential Pressure Cleaning (DFF), Downtime Cleaning (DTC), and Combined Differential and Downtime Cleaning (ALL) are available with this controller and can be individually chosen by the user.

- **Differential Pressure Cleaning (DFF)** - When the differential pressure drop reaches the controller’s HIGH setpoint, the controller closes an output relay initiating the cleaning cycle. When the differential pressure drop reaches the LOW setpoint, the relay opens and the cleaning cycle stops. This sequence continues as long as the collector is running, maintaining the differential pressure drop within a specified range.

- **Downtime Cleaning (DTC)** – The Delta P Plus controller monitors for the differential pressure drop to exceed the LOW setpoint. (Indicates the blower has been started). When the differential pressure drop later approaches zero (indicating the blower has been shut down), the Delta P Plus engages the cleaning cycle for a pre-selected time. A delay timer allows the blower to come to a stop before the cleaning cycle starts.

  The delay timer and cleaning cycle durations are both user adjustable but password protected.

- **Combined Differential and Downtime Cleaning (ALL)** – The ALL mode combines the two functions described above, maintaining the differential pressure drop in a specified range, then initiating a down-time cleaning cycle when the differential pressure drop approaches zero. The downtime cleaning function can be toggled on or off from the keyboard.

Note: The DTC and ALL cleaning modes incorporate compressed air cleaning of the filters when the main collector fan is not running. This may result in collected material “drifting” out the inlet duct of the collector. An isolation valve in the inlet duct of the collector can reduce or eliminate that drifting.

Consideration should be made on the use of the DTC or ALL cleaning mode on small collectors where the relatively low volume of the collector may produce pressure spikes with each pulse of the cleaning cycle. Such pressure spikes may accelerate the fatigue, or damage of ancillary items such as pressure sensors or explosion relief panels.

Alarm

The alarm is used to indicate that the differential pressure drop has exceeded a preset value. The alarm setpoint is set to a value exceeding the HIGH setpoint used to start the filter cleaning cycle. The purpose of the alarm is to notify the user, via a light on the panel or dry contact output, that the cleaning system cannot reduce the pressure drop possibly due to a cleaning system failure, lack of compressed air, or the end of the filter’s useful life. It can also be used to notify the user that the pressure drop has reached a certain value (process related). There is a time delay prior to activating the alarm to prevent nuisance trips of the alarm. The Delta P Plus Control also provides an input connection for a remote alarm reset/disable.

Note: Once the differential pressure drop reaches the Alarm value, the relay and LED remain activated until the pressure drop falls below the value set for the HIGH set point or until you deactivate the alarm using a remote reset/disable.
**Inspection on Arrival**

1. Inspect unit on delivery.
2. Report any damage to the delivery carrier.
3. Request a written inspection report from the Claims Inspector to substantiate claim.
4. File claims with the delivery carrier.
5. Compare unit received with description of product ordered.
6. Report incomplete shipments to the delivery carrier and your Donaldson Torit representative.

**Electrical Wiring**

*WARNING* Electrical installation, service, or maintenance work must be performed by a qualified electrician and comply with all applicable national and local codes.

- Turn power off and lock out electrical power sources before performing service or maintenance work.
- Do not install in classified hazardous atmospheres without an enclosure rated for the application.

All electrical wiring and connections, including electrical grounding, should be made in accordance with the National Electric Code, NFPA No. 70-latest edition.

- Check local ordinances for additional requirements that apply.

The appropriate wiring schematic and electrical rating must be used. See unit’s rating plate for required voltage.

**Installation**

*WARNING* Electrical installation, service, or maintenance work must be performed by a qualified electrician and comply with all applicable national and local codes.

- Turn power off and lock out electrical power sources before performing service or maintenance work.
- Do not install in classified hazardous atmospheres without an enclosure rated for the application.

*NOTICE* The Delta P Plus controller is factory set for 115 V. To operate at 230 V, the jumper settings on the printed circuit board must be changed. See the Optional Settings and Connections section for instructions. Verify voltage selector matches the voltage available prior to energizing the system.

1. Choose a location that permits access to the keypad for adjustments and observation of the pressure drop. Preferably locate the control enclosure near the collector, but if possible mount the control enclosure indoors.
2. Mount the control enclosure using the proper quantity and sized of fasteners.

*NOTICE* Use vibration isolators in high vibration areas.

3. Connect the output contacts to the correct contact terminals of the pulse control timer per the supplied electrical drawing. These connections will start/stop the cleaning cycle.
4. Wire the auxiliary alarm circuit, if desired. This relay output can be used to activate visual or audible alarms provided by others. If not wired, the alarm LED light on the control panel will be the only indication of a fault condition.

*NOTICE* Use proper grounding and handling procedures to prevent permanent damage to this device. Handle the printed circuit board by the edges only. Do not touch the socketed E2PROM pins.
5. Wire all remaining auxiliary connections at this time. See the Optional Settings and Connections section for a list of these options.

6. Thirty-five feet of plastic tubing is supplied with the control and must be cut in two sections. Connect one section of tubing from the control enclosure’s high-pressure port to the pressure tap on the dirty-air plenum. Connect the remaining section of tubing from the control enclosure’s low-pressure port to the pressure tap on the clean-air plenum. Additional tubing can be ordered from your representative.

7. Apply power to the control. Set the high- and low-pressure setpoints to start and stop the cleaning cycle. Set the alarm setpoint to activate the alarm display. See Control Calibration section.

Setpoint Adjustment

Quick Start Instructions

1. Press the MENU key, Lo appears. Press the SET key and the current value appears in the display. Use the arrow keys $\uparrow\downarrow$ to change this value. Press SET again, and the display will blink twice, indicating that the new set point has been accepted.

   The Lo setting selects the differential pressure drop value used to stop the pulse cleaning cycle, 2.0” w.g. is a typical initial value.

2. Press the MENU key twice, Hi appears. Press the SET key and the current value appears in the display. Use the arrow keys $\uparrow\downarrow$ to change this value. Press SET again, and the display will blink twice, indicating that the new set point has been accepted.

   The Hi setting selects the differential pressure drop value used to start the pulse cleaning cycle, 4.0” w.g. is a typical initial value.

3. Press the MENU key three times, AL appears. Press the set key and the current value appears in the display. Use the arrow keys $\uparrow\downarrow$ to change this value. Press SET again, and the display will blink twice, indicating that the new setpoint has been accepted.

   The AL setting selects the differential pressure drop value used to close the Alarm relay and turn on the Alarm pilot light on the display.

4. Press the DOWNTIME CLEAN key, and the display will read either On or Off. Pressing the same key again will toggle the reading [On to Off or Off to On]. Press the SET key to lock in your choice.

Adjustments

1. Pressing the MENU key repeatedly scrolls through the following programming choices:

   Lo — Low set point
   Hi — High set point
   AL — Alarm set point
   rtn — Return to reading current conditions
   PAS — Password (for access to secured functions)

3. The SET key shows current value and locks in values after adjustments.

4. The DOWNTIME Clean button toggles the function on and off when available.

5. Not pressing any buttons for 10 seconds allows the control to return to monitoring the filter system.

Password Protected Settings

To reach the password protected settings, press the MENU key 5 times, the display will show PAS.

Press the SET key, use the up arrow key $\uparrow$ to set the value to “4”, press set again.

When the display blinks twice, press the MENU key repeatedly until you reach the parameter you wish to change.

Once you have selected a parameter, use the arrow keys $\uparrow\downarrow$ to change the value within the setting range shown in the table.

Press the SET key to lock in the value.
<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
<th>Setting Range</th>
<th>Factory Default</th>
<th>Units</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>P 6</td>
<td>Mode Select</td>
<td>DTC</td>
<td>ALL</td>
<td>- -</td>
<td>DTC - Filters downtime cleaned only, not based on filter Delta P.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DFF</td>
<td></td>
<td></td>
<td>DFF - Filter cleaning based on Delta P with downtime cleaning not available.</td>
</tr>
<tr>
<td>P 7</td>
<td>Display Units</td>
<td>0 - 1</td>
<td>0</td>
<td>- -</td>
<td>Selects units of measure for the digital display.</td>
</tr>
<tr>
<td>P 8</td>
<td>Downtime Start Relay</td>
<td>30 - 99</td>
<td>30</td>
<td>Seconds</td>
<td>Adjustable time lag between the pressure dropping below the value set in parameter P 11 and the start of downtime cleaning.</td>
</tr>
<tr>
<td>P 9</td>
<td>Downtime Pressure Enable Relay</td>
<td>30 - 99</td>
<td>30</td>
<td>Seconds</td>
<td>Adjustable time required to be above the value set as the High Set Point (Hi) before the downtime feature is enabled.</td>
</tr>
<tr>
<td>P 10</td>
<td>Downtime Cleaning Time</td>
<td>1 - 999</td>
<td>10</td>
<td>Minutes</td>
<td>The amount of time the downtime cleaning will continue once the time set in P 9 expires.*</td>
</tr>
<tr>
<td>P 11</td>
<td>Downtime Start Pressure</td>
<td>0 - 9.6 (245)</td>
<td>0.3 (13)</td>
<td>In. Water (daPa)</td>
<td>The falling pressure that triggers the downtime cleaning sequence.**</td>
</tr>
<tr>
<td>P 12</td>
<td>Pressure Sensor Input Filtering</td>
<td>0 - 2</td>
<td>1</td>
<td>- -</td>
<td>Sets the time used for Delta P value averaging (0 = 250 ms, 1 = 2.5 sec, 2 = 10 sec).</td>
</tr>
<tr>
<td>P 13</td>
<td>Reset to Factory Defaults</td>
<td>0 - 1</td>
<td>0</td>
<td>- -</td>
<td>0 = No Reset 1 = Reset</td>
</tr>
<tr>
<td>P 14</td>
<td>Zero Offset</td>
<td>0 - 1</td>
<td>0</td>
<td>- -</td>
<td>0 = No Operations 1 = Offset and Displayed Zero</td>
</tr>
<tr>
<td>P 15</td>
<td>Software Version</td>
<td>- -</td>
<td>- -</td>
<td>- -</td>
<td>Factory password, no user adjustable items in subsequent parameters.</td>
</tr>
<tr>
<td>P 16</td>
<td>Password</td>
<td>- -</td>
<td>- -</td>
<td>- -</td>
<td></td>
</tr>
</tbody>
</table>

* If the downtime cleaning sequence is in progress and the pressure drop indicates a fan restart, the cleaning sequence will end.

** If P 11 is set as equal to or greater than the Lo value, the Lo value will automatically increase 0.2” above the P 11 value.
Delta P Plus Control Calibration

The only user calibration is the zero adjustment of the display. Due to slight changes in electronic components over time or pressure within the plant environment, the display may read something other than 0.0 while at rest. Use the following procedure to recalibrate the operating system.

1. Turn power to the Delta P Plus Control ON for a minimum of 30-minutes to stabilize the operating temperature.

2. Disconnect the pressure tubing, either leaving it to atmosphere, or connecting the two barbed fittings together with a short length of tubing.

3. Use the Menu key to select PAS.

4. Press SET, then use the arrow keys to display “4”, press SET again.

5. Press the MENU key repeatedly until you reach P 14.

6. Press SET, then use the arrow keys to display “1”, press SET again.

7. After 10 seconds with no further button action, the display will return to reading the pressure.

8. Connect one section of tubing from the control enclosure’s high-pressure port to the pressure tap on the dirty-air plenum. Connect the remaining section of tubing from the control enclosure’s low-pressure port to the pressure tap on the clean-air plenum.
Delta P Plus Control Installation

- High-pressure port
- Low-pressure port
- Dirty-air plenum
- Clean-air plenum
Optional Settings

See Printed Circuit Board illustration.

230 VAC Power Supply

To operate at 230 VAC, remove two jumpers labeled W1 and W3. Reinsert one of the jumpers in position W2.

Change from English to Metric (SI) Units

1. Turn power to the Delta P Plus Control ON.
2. Use the Menu key to select PAS.
3. Press SET, then use the arrow keys to display “4”, press SET again.
4. Press the MENU key repeatedly until you reach P 6.
5. Press SET, then use the arrow keys to display “0”, press SET again.
6. After 10 seconds with no further button action, the display will return to reading the pressure.

Disable Setpoint Adjustment

To restrict setpoint changes, install a jumper wire across the PROG. DISABLE terminals (3 & 4) on Terminal Block 2, TB2. The current settings will still be displayed, but no changes can be made until the jumper is removed. Interrupting the jumper with a key-operated, normally-closed switch installed in the enclosure door provides temporary access to the setting functions without opening the door.

External Alarm Reset / Disable (TB2, Terminal 5 & 6)

If desired, wire the ARM RESET terminals (5 & 6) on Terminal Block 2, TB2, to a key-operated, normally-open switch. Closing the switch turns the alarm OFF.

Internal Alarm Disable (J5)

To disable the alarm internally, remove the jumper on MODE Jumper Block J5, located on the lower-right quadrant of the circuit board. Disabling the alarm relay reduces the alarm function to the ALARM LED visual display only.

Hi/Lo Control (TB3, Terminals 7, 8, & 9)

Per the wiring diagram supplied with the controller, the Hi/Lo terminals are connected to the pressure switch input on the timer board. In most cases this connection is made at the factory.

Terminal 8 is common, terminal 7 is normally open, and terminal 9 is normally closed.

Auxiliary Relay Output (TB3, Terminals 10, 11, & 12)

1. If the jumper on the MODE Jumper Block J5 is not installed, the auxiliary relay output will not function.
2. If the jumper is installed in the ALARM mode position, the auxiliary relay output activates based on the setting of the ALARM setpoint.
3. If the jumper is installed in the SLAVE mode position, the auxiliary relay output activates in parallel with the HI/LO CONTROL relay.

Terminal 11 is common, terminal 10 is normally open, and terminal 12 is normally closed.

Analog Output (TB4, Terminals 13 & 14)

Terminals 13 & 14 on Terminal Block 4, TB4, in the upper-left quadrant of the circuit board, provide a 4 to 20 mA output proportional to the 0-to-maximum span of the pressure sensor. This circuit requires a 500 ohm maximum load.
Printed Circuit Board (Optional Settings Location)
## Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Probable Cause</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>No display on the Delta P Plus Control</td>
<td>No power to the control</td>
<td>Use a voltmeter to check for voltage at Terminal TB1.</td>
</tr>
<tr>
<td>Display on the Delta P Plus control does not read zero when at rest</td>
<td>Out of calibration</td>
<td>Disconnect pressure tubing. See Delta P Plus Control Calibration.</td>
</tr>
<tr>
<td></td>
<td>With collector discharging outside, differential pressure is present from indoor to outdoor</td>
<td>Recalibrate with the pressure tubing attached as described in Delta P Plus Control Calibration.</td>
</tr>
<tr>
<td>Display reads “_ _ _”</td>
<td>Pressure out of the allowable range</td>
<td>Check that high and low pressure tubing is attached and not leaking. Use a differential pressure measurement device to verify that the actual pressure does not exceed 20 “wg.</td>
</tr>
<tr>
<td>Delta P Plus Control ON, but cleaning system does not start</td>
<td>Not wired to the timing board correctly</td>
<td>Connect the pressure switch on the timer board to Terminals 7 and 8 on TB3.</td>
</tr>
<tr>
<td></td>
<td>Faulty relay</td>
<td>Using a multimeter, test relay for proper closure. Replace if necessary.</td>
</tr>
<tr>
<td></td>
<td>Pressure tubing disconnected, ruptured, or plugged</td>
<td>Check tubing for kinks, breaks, contamination, or loose connections.</td>
</tr>
<tr>
<td>Pulse cleaning never stops</td>
<td>Pressure switch terminals on the timer board jumpered</td>
<td>Remove jumper wire on solid-state timer board before wiring to Delta P Plus Control.</td>
</tr>
<tr>
<td></td>
<td>Pressure switch not wired to the timer board correctly</td>
<td>Connect the pressure switch on the timer board to terminal 7 (normally open) and Terminal 8 (common) on TB3.</td>
</tr>
<tr>
<td></td>
<td>High or low setpoint not adjusted for system conditions</td>
<td>Adjust setpoints to current conditions. See Setpoint Adjustment.</td>
</tr>
<tr>
<td></td>
<td>Pressure tubing disconnected, ruptured or plugged.</td>
<td>Check tubing for kinks, breaks, contamination, or loose connections.</td>
</tr>
<tr>
<td>Alarm light is ON</td>
<td>Alarm setpoint too low</td>
<td>Adjust to a higher value.</td>
</tr>
<tr>
<td></td>
<td>Excess pressure drop</td>
<td>Check cleaning system and compressed-air supply. Replace filter cartridges if filters do not clean down.</td>
</tr>
<tr>
<td></td>
<td>Pressure tubing disconnected, ruptured, or plugged</td>
<td>Check tubing for kinks, breaks, contamination, or loose connections.</td>
</tr>
<tr>
<td>Problem</td>
<td>Probable Cause</td>
<td>Remedy</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>---------------------------</td>
<td>------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Delta P Plus arrow keys do not work</td>
<td>Improper operation</td>
<td>Press MENU and choose a parameter, then press SET prior to using the arrow keys.</td>
</tr>
<tr>
<td></td>
<td>Programming keys disabled</td>
<td>Remove the Program Disable jumper from Terminals 3 and 4 on TB2.</td>
</tr>
<tr>
<td>Cleaning light is ON, but cleaning system not functioning</td>
<td>Improper wiring</td>
<td>Check wiring between the Delta P Plus Control and the timer board, and between the timer board and solenoid valve coils.</td>
</tr>
<tr>
<td></td>
<td>Defective solenoids</td>
<td>Check all solenoid coil for proper operation.</td>
</tr>
<tr>
<td></td>
<td>Timer board not powered</td>
<td>Check power ON light on timer board’s LED display. If not illuminated, check the supply voltage to the timer board. Check the fuse on the timer board. Replace if necessary.</td>
</tr>
<tr>
<td></td>
<td>Timer board defective</td>
<td>If LED is illuminated, observe the output display. Install a temporary jumper across the pressure switch terminals. Output LED’s should flash in sequence. Check output using a multimeter set to 150 VAC range, measure from SOL COM to a solenoid output. The needle will deflect when LED flashes for that output if voltage is present. If LEDs do not flash, or if no voltage is present at output terminals during flash, replace the board.</td>
</tr>
<tr>
<td>Downtime cleaning too long or too short duration</td>
<td>Parameter setup</td>
<td>Reset the value in Parameter P10.</td>
</tr>
<tr>
<td>Pressure display changes value up and down rapidly</td>
<td>Parameter setup</td>
<td>Reset the value in parameter P12.</td>
</tr>
</tbody>
</table>
Replacement Parts

<table>
<thead>
<tr>
<th>Item</th>
<th>Part Number</th>
<th>Description</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>7053601</td>
<td>Delta P Plus Control (includes keypad label and printed circuit board)</td>
<td>All</td>
</tr>
<tr>
<td>2</td>
<td>2334200</td>
<td>Plastic Tubing, Vinyl, 3/16-in ID, 5/16-in OD</td>
<td>All</td>
</tr>
</tbody>
</table>
The Donaldson Torit Warranty

Donaldson warrants to the original purchaser that the major structural components of the goods will be free from defects in materials and workmanship for ten (10) years from the date of shipment, if properly installed, maintained and operated under normal conditions. Donaldson warrants all other Donaldson built components and accessories including Donaldson Airlocks, TBI Fans, TRB Fans, Fume Collector products and Donaldson built Afterfilters for twelve (12) months from date of shipment. Donaldson warrants Donaldson built filter elements to be free from defects in materials and workmanship for eighteen (18) months from date of shipment. Donaldson does not warrant against damages due to corrosion, abrasion, normal wear and tear, product modification, or product misapplication. Donaldson also makes no warranty whatsoever as to any goods manufactured or supplied by others including electric motors, fans and control components. After Donaldson has been given adequate opportunity to remedy any defects in material or workmanship, Donaldson retains the sole option to accept return of the goods, with freight paid by the purchaser, and to refund the purchase price for the goods after confirming the goods are returned undamaged and in usable condition. Such a refund will be in the full extent of Donaldson’s liability. Donaldson shall not be liable for any other costs, expenses or damages whether direct, indirect, special, incidental, consequential or otherwise. The terms of this warranty may be modified only by a special warranty document signed by a Director, General Manager or Vice President of Donaldson. To ensure proper operational performance of the equipment, use only genuine Donaldson replacement parts.

THERE EXIST NO OTHER REPRESENTATIONS, WARRANTIES OR GUARANTEES EXCEPT AS STATED IN THIS PARAGRAPH AND ALL OTHER WARRANTIES INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHETHER EXPRESS OR IMPLIED ARE HEREBY EXPRESSLY EXCLUDED AND DISCLAIMED.

Parts and Service

For genuine Donaldson replacement filters and parts, call the Parts Express Line. For faster service, have unit’s model and serial number, quantity, part number, and description available.

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Donaldson Company, Inc. is the leading designer and manufacturer of dust, mist, and fume collection equipment used to control industrial-air pollutants. Our equipment is designed to help reduce occupational hazards, lengthen machine life, reduce in-plant maintenance requirements, and improve product quality.

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