# Smart Solenoid




## ABOUT

Camfil APC introduces a new cost saving innovation. The timer controls for pulsing the solenoids is now imbedded with the solenoids so you no longer have to wire a remote timer board to the solenoid tray. The on and off time of the solenoids is easily adjusted through dials integrated into the solenoid tray. Factory settings are 150 ms on time with a 30 sec off time between pulses. Also if this option is selected with a Gold Series dust collector you will also get a Magnahelic gauge to visually see the pressure drop across the filters.

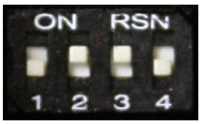
This series of devices are certified according to the European normative ATEX (94/9/EC).



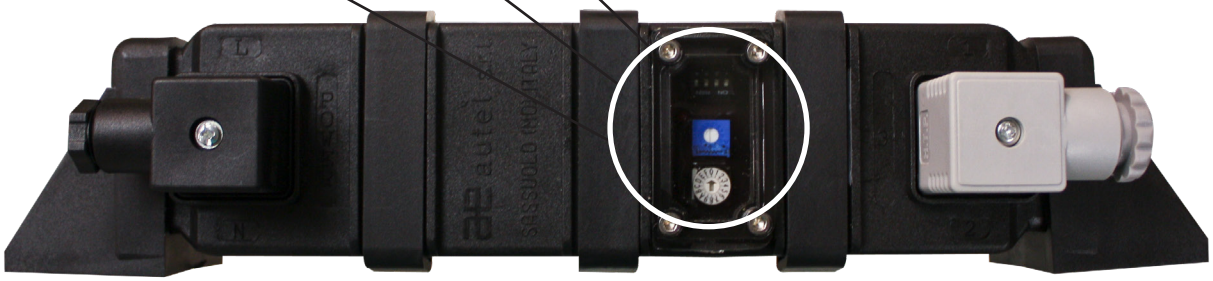
The pulse off time is controlled by a rotating dial



The rheostat trimmer is used to set the on time.




The STR Controller is provided with multiple solenoid valves which can vary from 2 to 6. Dip switches SW#2 and SW#3 control how many valves are used



L, N — Power Supply

⏚ Ground Terminal

Controls and Regulators

1-2 Shutdown Cycle
3-4 On Demand Cleaning

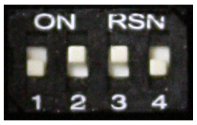
# Smart Solenoid

## CONTROLS: DIP-SWITCHES, TRIMMER AND ROTATING DIAL

The STR Controller is provided with multiple solenoid valves which can vary from 2 to 6. Dip switches SW#2 and SW#3 control how many valves are used as shown in the following table.

Table 1: Solenoid control DIP switch settings.

| | | Solenoids Enabled (shaded grey) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SW#3 | 1 | 2 | 3 | 4 | 5 | 6 | 2 | 3 | 4 | 5 | 6 | 3 | 4 | 5 | 6 | 3 | 4 | 5 | 3 | 4 |
| ON | ON | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| OFF | ON | | | ■ | ■ | ■ | ■ | | ■ | ■ | ■ | | ■ | | | ■ | | ■ | ■ | ■ | |
| ON | OFF | | | ■ | ■ | | | | ■ | ■ | | | ■ | ■ | | | ■ | | ■ | | ■ |
| OFF | OFF | | ■ | ■ | ■ | ■ | ■ | | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | ■ | ■ | | ■ | ■ |




SW#1: Off = Shut down cycle enabled
On = Shut down cycle disabled

SW#2: See Table 1

SW#3: See Table 1

SW#4: ON = Test – off time = 1 sec
Off = Normal – off time per dial settings

### The rheostat trimmer is used to set the on time



Adjust on time so that you hear a sharp pulse similar a shotgun blast. The pulse is to long if excessive air hisses out of the valve after the initial blast. Factory recommended setting is 150 MS

Min: 80 milliseconds

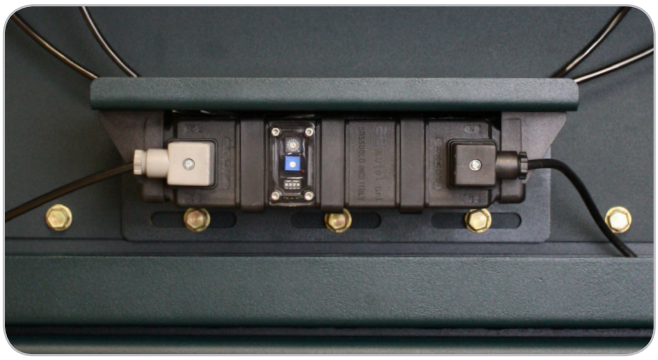
Max: 650 milliseconds



The pulse off time is controlled by a rotating dial per the positions in table 2

### Table 2: Off time adjustment

| Position | Pause (sec) |
|---|---|
| 0 | 15 |
| 1 | 20 |
| 2 | 25 |
| 3 | 30 |
| 4 | 35 |
| 5 | 44 |
| 6 | 52 |
| 7 | 60 |
| 8 | 75 |
| 9 | 88 |
| A | 100 |
| B | 118 |
| C | 148 |
| D | 175 |
| E | 210 |
| F | 4 |



Solenoid Timer mounted above door on GS4

© Camfil APC, Product Sheet / Smart Solenoid /05-13-2019-1959— External Use