



Monitoring the Life of Your Filter

No Longer Question When It's Time to Change Your Filter



- *Keep Indoor Air Clean*
- *Change Filter Less Frequently*
- *Extend Maintenance Cycles*
- *Lengthen Lifetime of HVAC System*
- *Eliminate Maintenance Checks*
- *Energy Savings - Lower Costs*
- *Low Price - Quick Return on Investment*

Now FilterPulse™ is the Answer!

The FilterPulse™ patented optical filter sensor for HVAC systems notifies when an air filter is dirty and requires replacement. Utilizing its infrared sensing technology, the FilterPulse™ operates independently from air speed fluctuations and pressure changes in the HVAC system which is not possible with pressure sensing instruments. This technology's performance enables the FilterPulse™ to be the only device that produces an accurate detection of replacement status on a variety of capacity filters, across all brands, in complex to simple HVAC systems.

www.filterpulse.com



Monitoring the Life of Your Filter

Keep Indoor Air Clean

Maintain a healthy environment. Heavily loaded filters can force dirty, unfiltered air to be pushed around the filter and into the environment without being properly cleaned by the filter! This is particularly an issue for the young, elderly or those with breathing impairments. Indoor air can be far dirtier than outdoor air. Don't make the problem even worse by not changing your filter at the proper time.

Change Filter When System Demands - No Longer Replace Filter Before Required

In many locations, during spring and fall the HVAC system runs far less versus winter and summer. If you use the same replacement schedule all year, you actually may be paying more for filters by replacing them before they are sufficiently loaded.

Extend Maintenance Cycles - Reduce Maintenance Time

Clogged filters tend to disfigure, allowing unfiltered, dirty air to bypass and go around the filter. This clogs the heat-exchanger fins, blower turbine blades, ducts, etc. Properly changing filters at the proper moment saves maintenance time needed later for cleaning the HVAC components.

Lengthen Lifetime of HVAC System - Less downtime; Reduce Replacement Costs

For every additional hour of run time from an overloaded filter, the HVAC unit's lifetime is reduced by approximately 1 hour!

Eliminate Maintenance Checks - Reduce Maintenance Costs

In many large buildings, apartments, schools or industrial complexes, there can be hundreds of filters to inspect. Maintenance personnel rely on a schedule to routinely check the filters to make a judgment if replacement is necessary. Significant time is wasted on these routine checks. With the FilterPulse™, this cycle can be eliminated as the sensor signals the exact point when the filter is to be changed.

Energy Savings - Lower Electric Bills

The heavier the workload from a dirty filter, the harder the HVAC system has to operate. The harder the HVAC system works, the more energy demanded to perform the same level of performance. This higher level of energy of course corresponds to an increased energy bill. Increased monthly energy costs due to clogged filter (for \$1000 annual heating/cooling costs) are detailed in the graphs below.



How it Works

The patented FilterPulse™ technology shines a light beam through an HVAC air filter and receives the light that passes through the filter. When a new clean filter is inserted, the filter reset is pressed. An initial light measurement is made calibrating the sensor with the starting base-point of the new filter. Later measurements are compared with the initial measurement. The alarm indicates when the measured light sensed drops below the dirty status trip point. This calculation method allows the FilterPulse™ to accurately detect the proper replacement threshold on nearly all varieties and brands of filters. Plus, unlike other products, the FilterPulse™ accurately operates regardless of the HVAC blower speed or pressure fluctuations in the system.

Ordering Details

CONTROL ENCLOSURES	MODEL
9V Battery Powered Control Enclosure	CNTL-0B0
24 VAC Powered Control Enclosure with Relay Output	CNTL-2AR
24 VAC Powered NEMA 4X Control Enclosure with Relay Output	CNTL-3AR
FILTER SENSOR BRACKETS	MODEL
Sensor Bracket for 1" THICK FILTERS	BKT-001
Sensor Bracket for 2" THICK FILTERS	BKT-002
Sensor Bracket for 4.5" THICK FILTERS	BKT-004

phone: 256.489.1468 • info@filterpulse.com