

PulsePro™ Baghouse Control, Monitoring, and Diagnostic System

PulsePro Controls set a new standard for dust collector control by seamlessly integrating pulse-jet timing, pressure gauging, leak detection, and other measurements into a single easy-to-use device.

Integration of control and sensing:

- lowers installation and operating costs,
- reduces emissions,
- and enables automatic diagnostics such as locating failed solenoids, diaphragms, and filter leaks.

PulsePro Interface

Control and display for all functions and auxiliaries are accessed from dedicated membrane keypad buttons that can be locked to prevent tampering.

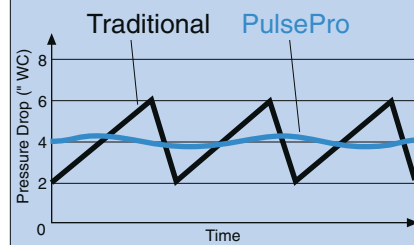
- The **Cleaning** button enables the selection of intelligent (see description at right) or conventional cleaning modes. Reliable 10-40 point solenoid timing is ensured by high power output triacs synchronized to AC voltage, precise microprocessor control, and high quality construction.
- The **Pressure** button provides display and control for differential pressure. Unlike common mechanical photo/helical gauges, PulsePro pressure sensing is solid state. Our optional Non-Clogging Pressure Sensor eliminates clogging problems and assures proper pressure regulation.
- The **Leakage** button displays filter leakage without tuning or baseline reference! The PulsePro leak detector is far more reliable than a triboelectric broken bag detector.



Intelligent cleaning

PulsePro offers intelligent pulsing technology that minimizes compressed air use, eliminates swings in differential pressure, extends filter life, and optimizes filtration.

PulsePro automatically adjusts the off-time between pulses and pulse duration in real time to maintain a constant differential pressure across the filters. The operator simply enters the desired differential pressure and PulsePro does the rest.

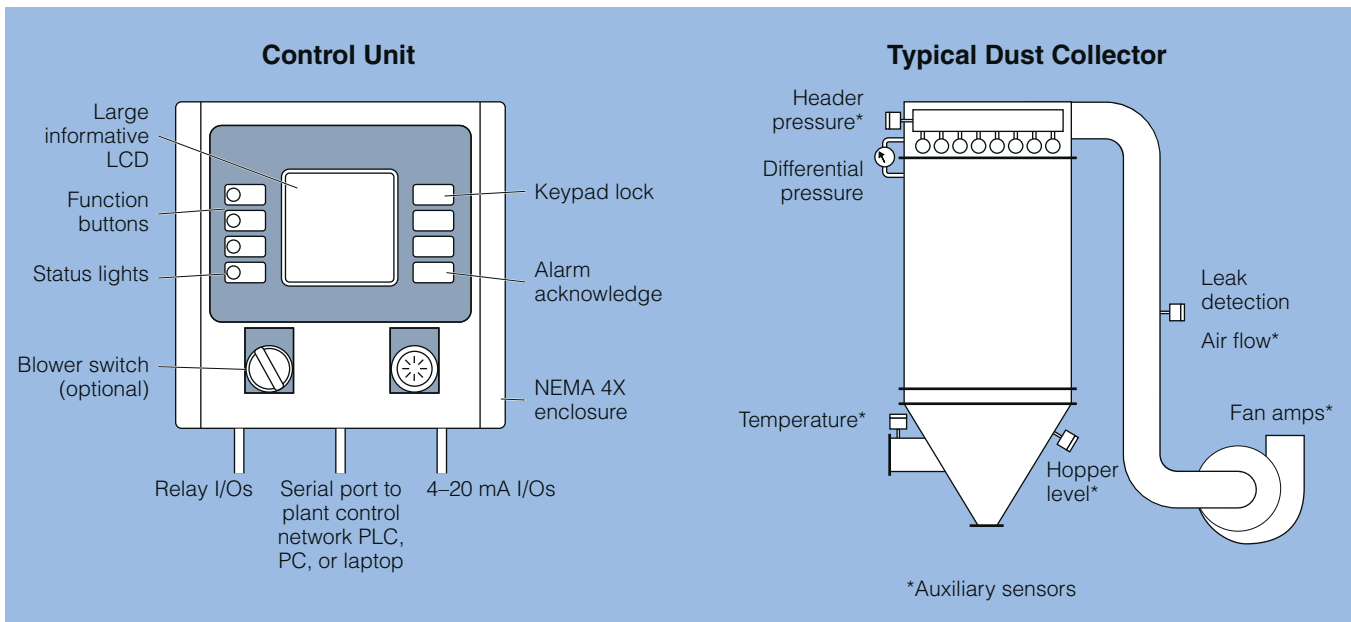


PulsePro can locate leaks by row with the addition of our Instant Leak Locating System.

- An **Auxiliary** button accesses control and display for additional diagnostic sensors that can be built into the system, including: hopper level, air flow, fan amps, temperature, pulse-jet supply pressure, and more.

Features and Benefits

- Cleaning modes: intelligent, manual on-time/off-time, single cycle, cycle down, continuous, and remote activated.
- Locate failed pulse-jet solenoids, diaphragms, and filter bags
- Ideal for compliance with EPA CAM, MACT, Title V, and PM 2.5.
- Advanced process communication for QC and PM programs.
- Two models to choose from: PulsePro 10 is designed for baghouses in the 3,000–9,000 CFM range; PulsePro 40 is for larger units.



PulsePro Specifications

Control Unit

AC input	115 VAC 60Hz std. 230 VAC, 50 Hz opt. Power: 10 W (solenoids off).
Display	Graphical LCD, 10 yr. backlighting opt.
Solenoid timer	10-40 solid state outputs, 200 W per 8A/600V high power triacs, +/- 1mS timing.
Pressure gauge	0-10" WC differential displayed std. (other opt.). Transducer: 0-27" range, +/- 2.5% over temperature.
Leak detector	10pA to 1,000 pA range std. Lower ranges opt.
4-20mA inputs	For fan amps, temperature, or other 125 Ohm std., isolated avail.
On/off inputs	For remote timer on/off, level switch relay, or open collector transistor.
(2) Relay outputs	For alarming and process control SPST form A, 8 A @ 240 VAC.
(2) 4-20mA output <i>Optional</i>	For data logging or process control. 4,700 Ohm, isolated avail.
(1) Serial port <i>Optional</i>	For remote operation, PLC/PC network. ModBus RS-485, 2-wire bidirectional.
Real-time clock <i>Optional</i>	For timer on/off and data logging. 5 year lithium cell
Temperature	-13°F/-25°C to 160°F/70°C
Enclosure	NEMA 4 aluminum std. NEMA 4/7/9 opt.
Approvals	CE approved FM, CSA consult factory.

Leakage Sensor

Probe length	3", 5", 10" std. 15", 20" opt. Longer opt. for PulsePro 40 only.
Mount	½" NPT std. Quick Clamp opt.
Materials	304SS, Teflon (other avail.)
Enclosure	NEMA 4X aluminum std. NEMA 4/7/9 opt.
Max temperature	250°F/120°C std. 450°F/232°C opt.
Pressure	Full vacuum to 30 psig/ 12 bar.

Auxiliary Sensors

Non-clogging pressure sensor	Eliminates tubing connection at dirty side. 0-10" WC differential, < +/- 1.0% total error.
Hopper level	RF point level, relay out, ½" NPT mount
Header pressure	0-100 psig/ 0-7 bar sensor built into Control Unit
Air flow	Pitot tube or other available.
Temperature	Type J thermocouple.
Fan amps	AC current sensor.

Specifications subject to change



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