BlastGate SHUTR Smart Dust Control System Instruction Manual

Contents

BlastGate.com
SMART DUST CONTROL

BlastGate SHUTR Smart Dust Control System

Product Specifications

- Product Name: Smart Dust Control System
- Features:
  - Reduce health hazard
  - Ensure optimal dust collection
  - Save Energy
  - Maximum dust collection
  - Optimized ducting
  - Higher efficiency
  - No more manual gates
- Compatibility: Usable in dust collection systems with industry-standard ducting

FAQs

Q: Can I use the Smart Dust Control System with any dust collection system?

A: The system is compatible with dust collection systems using industry-standard ducting.

Q: How far is the wireless operating range of the SHUTR Controllers?

A: The wireless range in open space is 50-100 meters.

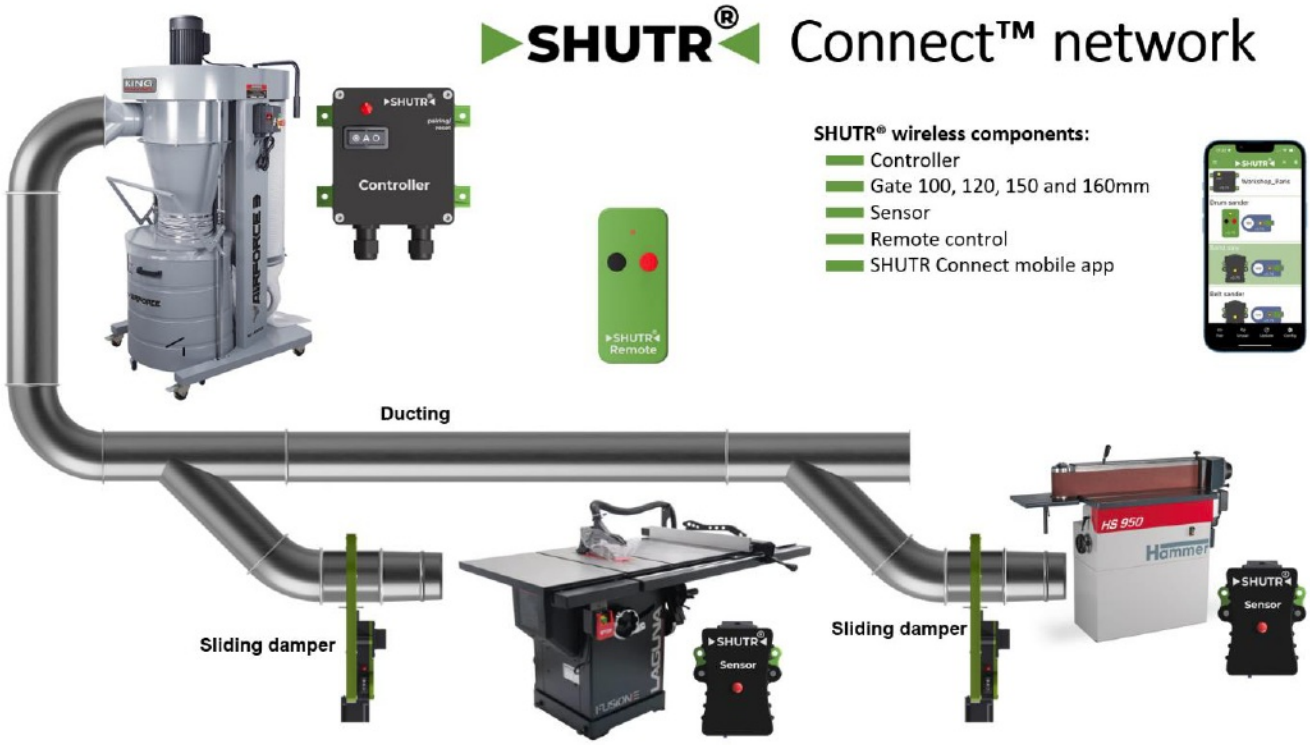
Q: How is the SHUTR Sensor powered?

A: The Sensor can be powered by a wall-mounted USB supply or the Gate.

Control System

- **Reduce health hazard**
  - Ensure optimal dust collection
- **Save Energy**
  - Only run Dust Collector when needed
- **Maximum dust collection**
  - Optimized ducting
- **Higher efficiency**
  - No more manual gates

SHUTR® is a family of industrial-grade products for controlling the flow of dust in Dust Collection systems. The products are primarily designed to improve the efficiency of dust collection systems in professional and semi-professional woodworking shops and industry applications. The wireless components use a specially developed SHUTR® Connect™ protocol to interact in a safe and reliable way.



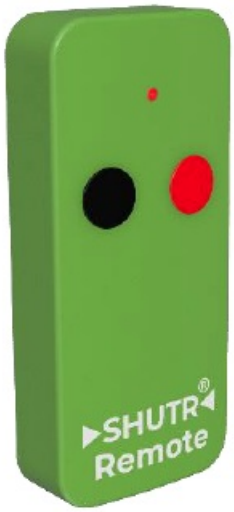
The components are easy to install and usable in every dust collection system that uses industry-standard ducting.

The SHUTR wireless sliding dampers are at the heart of the system; they can be opened and closed automatically by means of a wireless activation Sensor on a wood processing machine or by a Remote control. The Gates have a stainless-steel slide with pressure seals to prevent pressure drop when closed. The compact SHUTR Gate is unique as it is the only electrically driven sliding damper in the world that is ATEX certified*. The housing for the electronics and brushless motor is made of strong polycarbonate, UV class F1, IP54.

The SHUTR Sensor is simply clamped on to the power cord of a processing machine. It senses if the machine is powered on or off and will send a signal to the SHUTR network accordingly. The sensitivity can be adjusted with the SHUTR app to accommodate processing machines with either a low current or with standby power consumption. The Sensor takes its power from a wall-mount USB power supply or from the Gate.

In its most basic set the SHUTR Controller can be used to switch a Dust Collector on/off with the use of a Remote control. At the same time, the Controller supports up to 60 SHUTR devices on the SHUTR Connect network with different configurations. The Controller enables the wireless SHUTR Gates, Sensors, and Remotes to be paired together to create logical combinations (series). By using the Automatic mode in combination with Sensors at the processing machines the Controller will activate the existing Dust Collector motor only when dust collection is really needed and save costly energy. The Controller works in parallel with the existing safety switch (magnetic switch) on the Dust Collector and will maintain all the safety features that are present. One can have multiple SHUTR Controllers in one location. The wireless operating range in open space is 50-100 meters.

The SHUTR Remote control can be used to remotely switch the Dust Collector on or off or activate a combination of one or more Gate(s) and the Dust Collector. The rugged Remote has a detachable stainless steel belt clip and comes with a placeholder for mounting on the wall.



Easy to install

Easy to install – The SHUTR Connect App

No specific technical knowledge is required to install the different components. No network setup is required. Configuration of the components can be done manually with buttons on the components or with the help of the SHUTR Connect app that connects through Bluetooth with the controller and visualizes the SHUTR network setup. The SHUTR app also provides advanced settings for each of the components in the network. Advanced settings on the controller include switch ON delay, switch OFF delay, minimum runtime of the dust collector, minimum off time, sensor sensitivity, OTA firmware update, and other settings. As each component is wireless there is no need to install cabling along the ducting to connect each component. The Gates and Sensors receive power from a small wall-mount adapter.

Conformity & Safety features

The SHUTR Gate complies with the CE / ATEX 114 norm*, Zone 21 internally and Zone 22 externally. The housing is made of strong polycarbonate, UV class F1, combined with galvanized steel flanged tubes. All SHUTR components are dustproof to IP54 level and compliant with the EU directives for CE and LvD, EMC, and RES. The SHUTR Gate is protected against overload and will automatically recover after a slide “jam”. One or more Gate(s) can be set to default “open” to prevent a vacuum at any time. The SHUTR Connect™ protocol, which is used by all components to communicate on the network, uses security measures such as encryption to minimize the risk of cybercrime. More detailed information can be found in the SHUTR component datasheets. (*) ATEX certification is pending.

MORE INFO

- www.blastgate.com
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Documents / Resources

	BlastGate SHUTR Smart Dust Control System [pdf] Instruction Manual SHUTR Smart Dust Control System, SHUTR, Smart Dust Control System, Dust Control System, Control System, System

References

- **User Manual**