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Save Energy | Enhance Safety

Airflow Controller
Model - V201

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Microprocessor based fume hood air velocity controller across the front window against a set point by motorized damper actuator or VFD with audio-visual alarm when out of range.

Controller monitors several parameters like exhaust air temperature, front window opening duration, on screen real time trending On-fire function, Logging several parameters to a USB drive per minute or through specified protocol. On Demand Internet of Things (IoT) control & monitoring service also available.

- > Face Velocity Control
- > 3.5" Colour Touch Screen
- > High Accuracy Sensor
- > Temperature Monitoring
- > Sash Open Alert
- > On-Fire Function
- > USB Logging, 15 Parameters
- > Flush and Night Modes
- > On Screen Damper Status
- > Real Time Trending
- > Dedicated Touch Buttons
- > Date based calibration and service reminders
- > D-IN and D-OUTs
- > Modbus or BACnet Protocols
- > IoT Control & Monitoring
- > Manul mode for commissioning
- > Data Saved when Power Failure

Features:

- **Face Velocity Control**
  Regulate the face velocity with a high degree of accuracy to optimise the energy saving with programmable control values.
- **3.5” Colour Touch Screen**
  Resistive colour and responsive touch screen display with options for operation with hand gloves.
- **High Accuracy Sensor**
  Surface-mount type air velocity module thermopile-based sensor with silicon coating to protect it from moisture and abrasive wear.
- **Temperature Monitoring**
  Temperature monitoring of duct with Stainless Steel sensor. Alert configuration ranging from 40° to 100°C
- **Sash Open Alert**
  This alert is triggered when the sash is open for too long. You can configure the alert duration from 1 to 15 minutes
- **On-Fire Function**
  When the device receives an external fire signal, it will close the damper momentarily to retain the fire suppressant released inside the hood by the suppression system.
- **USB Logging, 15 Parameters**
  This feature allows device to log several parameters such as real-time velocity and setpoint, duct temperature, sash close, fault, light status, etc. on USB Drive.
- **Flush and Night Modes**
  This mode allows user to evacuate a large amount of fumes from the fume hood. You can reverse this mode manually or on a timed return. Similarly, night mode allows user to reduce the exhaust during night time. You can reverse this mode manually or on a timed return basis.
- **Real Time Trending**
  This feature allows you to view the trends of velocity, damper operation, and sash opening on the screen. You can set the time interval for the trends per hour, day, or week.
- **Dedicated Touch Buttons**
  These buttons allow you to easily control the light, menu and mute functions.
- **D-IN and D-OUTs**
  Device shall receive configurable digital inputs and be capable of providing configurable outputs
- **Modbus or BACnet Protocols**
  Device has built-in Modbus protocol and BACnet provided up on request.
- **Manual mode for commissioning**
  User shall choose manual mode actuation for accurate and swift commissioning of HVAC systems.
- **Date based calibration and service reminder**
  Device shall remind the user on date-based calibration and service with on-screen flashing alert.
- **IoT Control & Monitoring**
  Device has the capability to connect through an internet gateway to internet of things functions. These IoT functions allow the user to operate the device from the internet.

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DESCRIPTION	SPECIFICATIONS
Display	3.5" Touch screen, Colour
Airflow Sensor	Directional Type, Inwards only
Alerts	Audio Visible type
Dedicated Soft Push Button	Mute, Menu & Light
Power Supply	230V AC 1A Single phase, 24V DC 1A to device
Control Output	12V DC to Actuator / Frequency drive
Units	SI and MKS
Measurement Range (Velocity)	0 to 2 m/s
Controller Range (Velocity)	0.1 to 2 m/s
Measurement Accuracy	3%*
Velocity List Count	0.01 m/s or 1 fpm
Response Time	1 Sec
Device Working Temperature	10°C to 45°C
Operating Humidity	25% to 75% RH
Onsite setting up	On-site re-calibration
Temperature Measurement	40° to 100° C
Temperature List Count	1° C
Sash Window Monitor	Open or Close and Warning
DIN Input	Light or Flush or Night
DIN Output-1 & 2	Fault or Flush or Night or Window
Flush Mode	Velocity 0.5 to 2m/s and Duration 1-1440min.
Night Mode	Velocity 0.1 to 1m/s and Duration 1-1440min.
Realtime Trend Graph	Velocity or Damper or Sash
Trend Graph Interval	1 hour or 1 day or 1 week
USB Logging	15 Parameters every Minute
Buzzer Volume Level	High or Low
On-Fire Function	Temporarily damper close, settable 2 to 6min.
Adviser Function	Device Calibration and FH Service
Cloud function	IoT with both controlling and monitoring
Communication	Modbus by default and BACnet
Mounting	Semi Flush
Commissioning Assist	Manual Override

* As tested in lab condition and with calibration compensation

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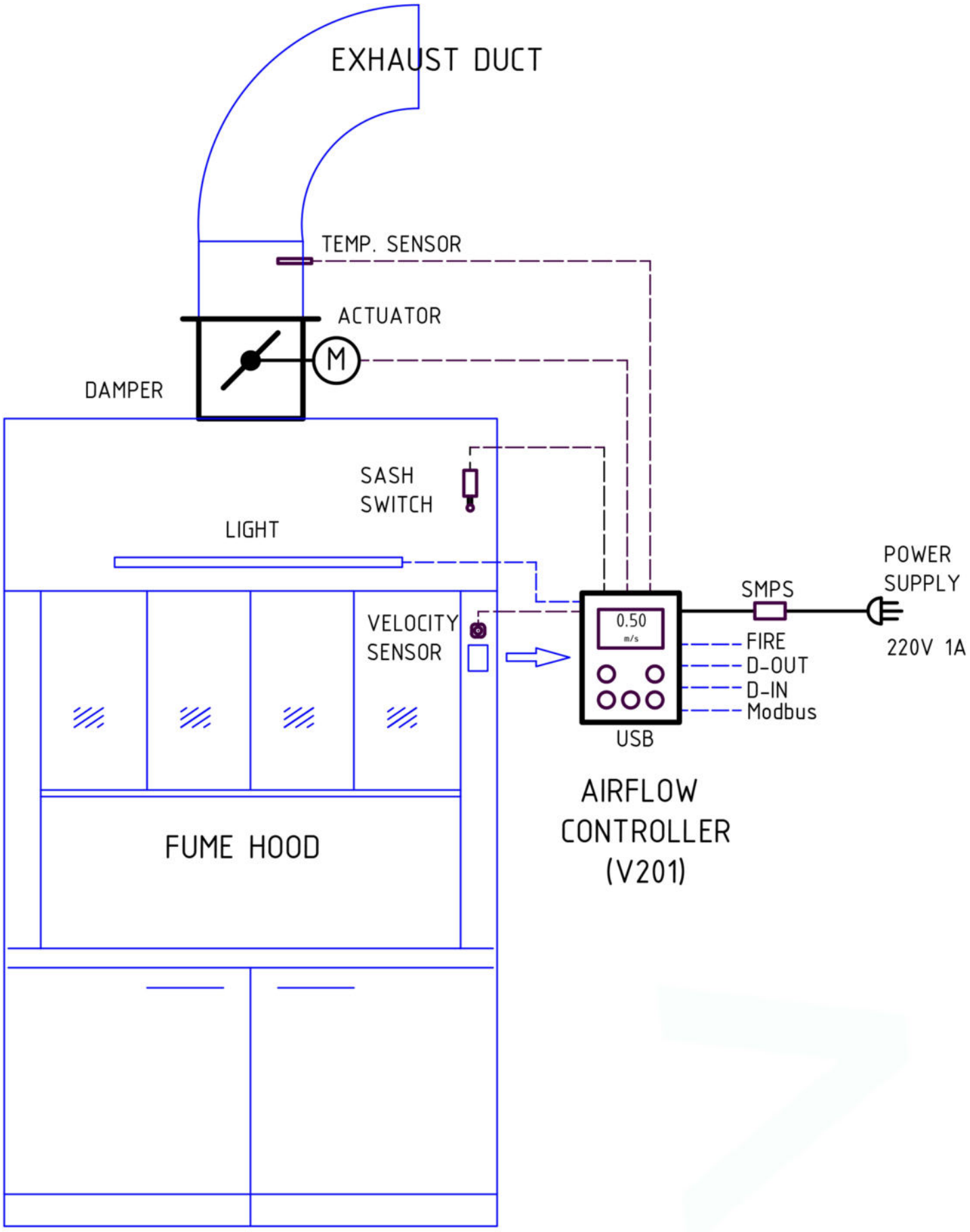
Schematic Diagram of Airflow Controller



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ISO 9001:2015
ISO 14001:2015
ISO 45001:2018

CE QVE SLH 23 2020175

Please Scan for real time working videos

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