



# Air Volume Monitor

## Model - 155

Standard - 155

Save Energy | Enhance Safety

**Syannlab Solutions Pvt. Ltd.**

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A micro controller-based airflow volume monitor based on the venturi effect offers a precise, low-maintenance solution for measuring airflow in fume hood exhaust, building ventilation systems. Utilizing a specially constructed tube, it creates a differential pressure as air accelerates through the constriction. This pressure drop is directly proportional to the flow rate, allowing for accurate real-time monitoring without the need for moving parts. Ideal for fume hood exhaust, cleanroom environments, HVAC applications and any other industrial air handling systems, this device ensures consistent performance, enhanced safety and air flow compliance standards. Its compact design and reliable operation make it an essential tool for air management solutions.



- Sleek & Glass Front Design
- Touch Sensitive Buttons
- Airflow Volume Measurement
- Display – Illuminated OLED, 1.3inch
- Measurement via special venturi construction
- Visual Indication – Bright LED Green and Red
- Volume High and Low Set point & Alerts
- Alarm repeat function
- Selectable units - CMH or CFM
- Wide range from 100CMH to 10,000CMH
- Response time – 1 seconds
- On device Calibration Reminder
- Minimal static pressure loss
- Relay & Analogue Output
- Light on 230V 5A Relay
- 220V 1 Ph. Power Supply

## Brief Description :

Microcontroller based Air flow volume measurement device with specially constructed venturi sensor, measurement against set point and indication of high or low value. Alert with audio visible alarm when out of range of velocity and for the reverse direction airflow. The device is with glass front and features touch buttons interface and relays for controlling light and exhaust fan contactor. The illuminated digital OLED display 1.3 inch shows the operating status and the air flow volume as a numeric value in SI and Imperial system.

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## Features

- Display - Illuminated OLED, 1.3inch
- Visual Indication - Bright LED Green and Red
- Audible Indication - up to 60dB sound level
- Interface - Touch Sensitive capacitive buttons
- Input - 4 touch input for Menu, Mute, Up/Down & Light
- Power supply - 230V AC power adaptor, Power usage - 24VDC 1A
- Display unit - SI (MKS) CMH & Imperial (FPS) CFM
- Measurement type - Specially constructed external venturi tube
- Measurement range - 100 to 10,000 CMH
- Measurement list count -1 CMH or 1 CMF
- Measurement accuracy - 3% FS \*
- System repeatability - 3%\*
- Response time - 1 seconds (truncated)
- Alarm silence - Temporary, programmable duration
- Alarm repeat - Repeated alarm with programmable time
- Calibration adviser - 4000 hrs preset, programmable & resettable
- Control - Light, On & Off thru contactor relay 1A
- Communication - AO 0(2)-10 V or 4-20 mA selectable
- Buzzer volume - High & low user settable.
- Operating temperature - 10° C to 40° C
- Operating Humidity - 25% to 75% RH
- Device outer dimension - 145 x 82 x 56 mm
- Cut-out size - 122 x 70 mm, Fixing hole pitch - 135 mm

As tested, in laboratory condition

**Syannlab Solutions Pvt. Ltd.**

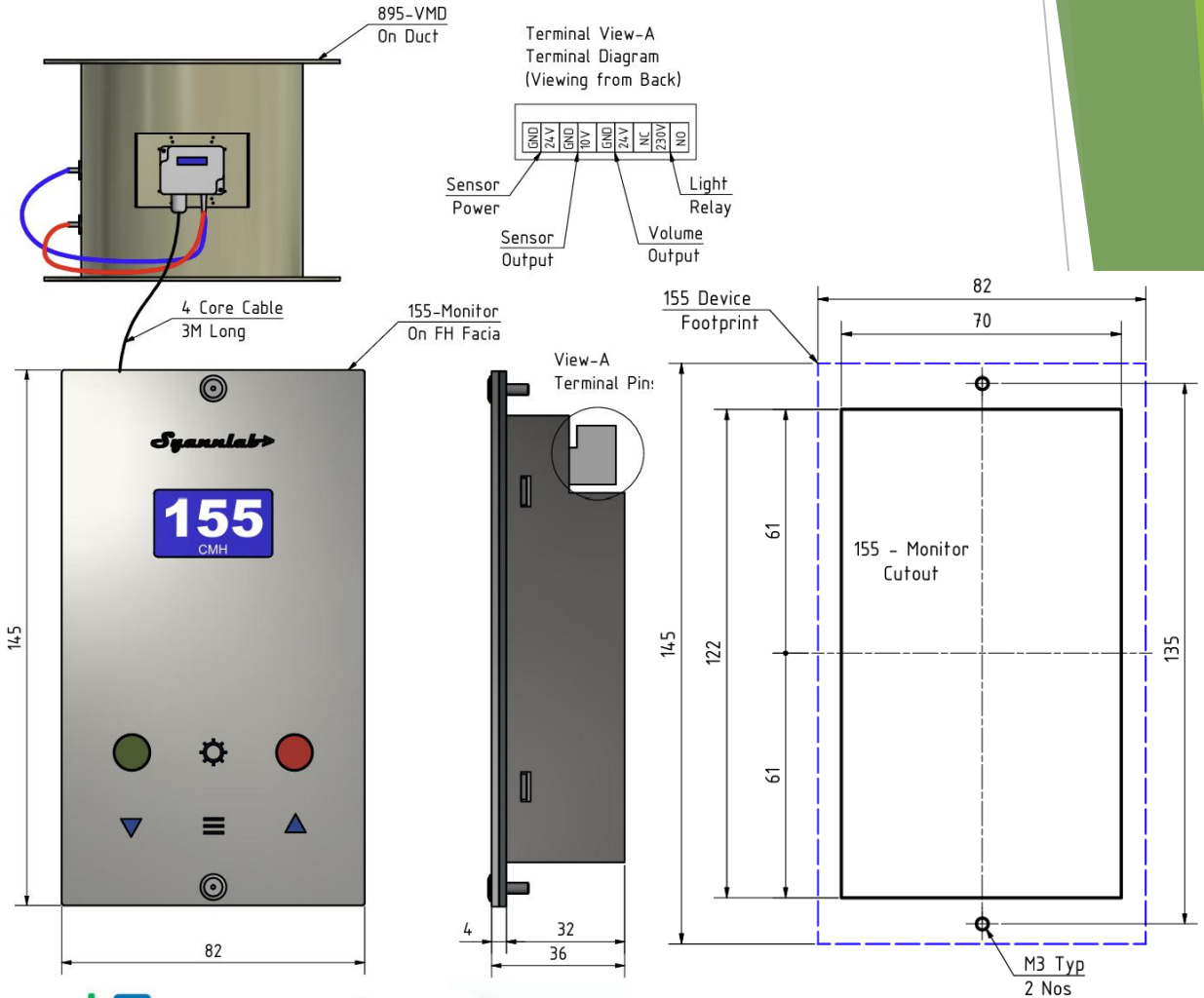
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155  
Model No  
155 - Standard

1013  
Display  
1013 = 1.3" Display

00  
Configuration  
00 - Standard



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Please scan for real time working video.



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