

# RemoteAV

## Air Velocity Sensor



The Remote AV Sensor is the ideal solution for unidirectional flow and ventilation monitoring in cleanroom environments and for HVAC applications.

The Remote AV Sensor has a highly accurate sensor for measurement of low air velocity and is most suitable for cleanroom and controlled environment device monitoring such as isolators, cabinets and biological safety cabinets. With its excellent high accuracy thin film sensor the Remote AV Sensor offers great accuracy at low velocities down to 0.15m/s (30ft/min).

With an LCD option with backlight the Remote AV Sensor allows for high visibility in process conditions, lower angular dependence allows for an easy and low risk installation.

Only one CAT 5/6 cable is required for power and communications.

### FEATURES

- Smooth Cover and Cleanroom Friendly Enclosure
- Long Term Sensor Stability
- Large Easy Readable Display
- Easy to Install
- Bayonet Screws for Easy Access 1/4 Turn Rotation
- Protected PCB
- IP65/NEMA4 Rating
- Remote Probe Option
- Wall Mounted or Duct Mounted Options

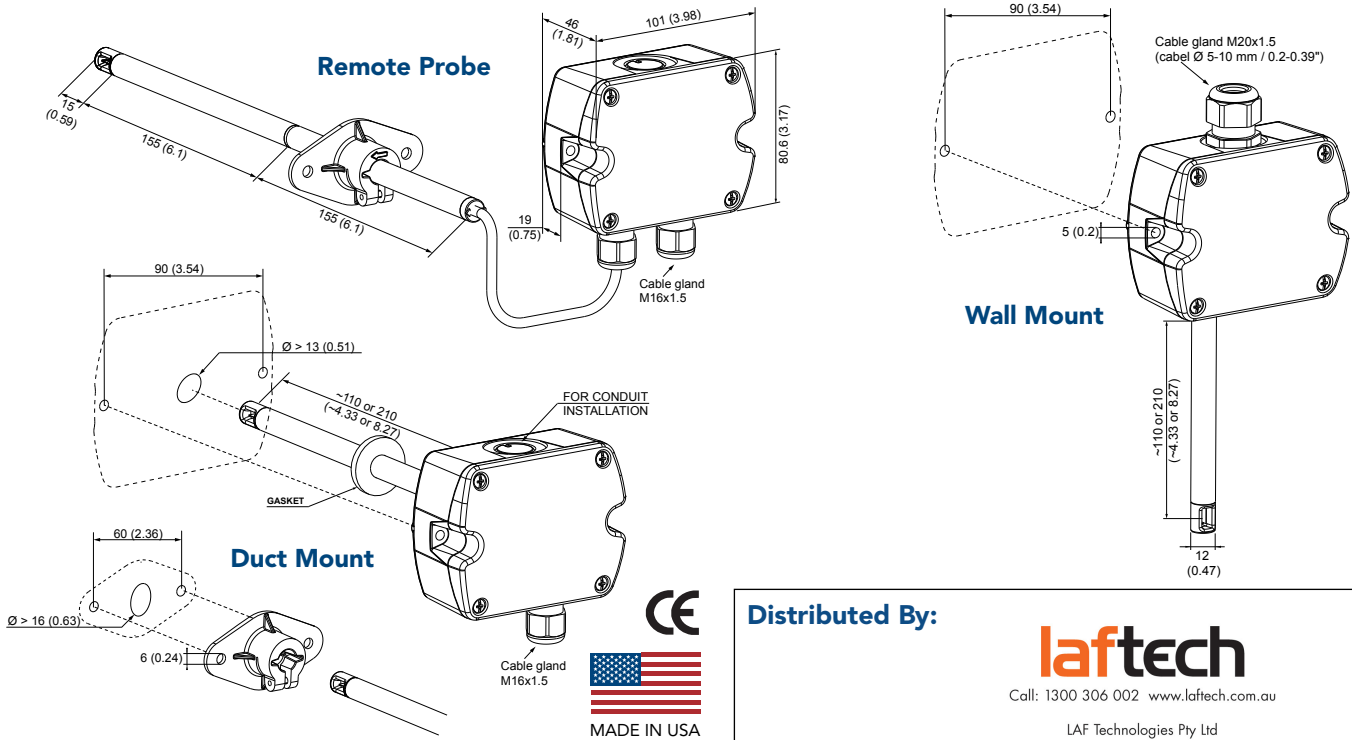
# RemoteAV Sensor Specifications

## Measured Values

<b>Working range</b>	0...1 m/s (0...200ft/min)	0...1.5 m/s (0...300ft/min)
	0...2 m/s (0...400ft/min)	0...10 m/s (0...3000 ft/min)
	0...20 m/s (0...4000 ft/min)	
<b>Output</b>		
0...1 m/s   0...1.5 m/s   0...2 m/s   0...10 m/s   0...20 m/s	4 - 20 mA	
<b>Accuracy at 20 °C (68 °F), 45 % RH, 1013 hPa</b>	0.15...1 m/s (30...200 ft/min)	±(0.04 m/s (7.9 ft/min) +2% of mv)
	0.15...1.5 m/s (30...300 ft/min)	±(0.05 m/s (9.8 ft/min) +2% of mv)
	0.15...2 m/s (30...400 ft/min)	±(0.06 m/s (11.8 ft/min) +2% of mv)
	0.2...10 m/s (40...2000 ft/min)	±(0.2 m/s (40 ft/min) +3% of mv)
	0.2...20 m/s (40...4000 ft/min)	±(0.2 m/s (40 ft/min) +3% of mv)
<b>Response time <math>\tau_{90}</math></b> <sup>1) 2)</sup>	typ. 4 sec or typ. 1 sec (at constant temperature)	

## General

<b>Power supply</b>	24V AC/DC ± 20%
<b>Display</b>	Optional
<b>Angular dependence</b>	< 3% of the measured value at $ \Delta\alpha  < 10^\circ$
<b>Electrical connection</b>	screw terminals max. 1.5 mm <sup>2</sup> (AWG 16)
<b>Cable gland</b>	M16x1.5
<b>Electromagnetic compatibility</b>	EN61326-1 EN61326-2-3 - Industrial Environment
<b>Housing material</b>	Polycarbonate, UL94V-0 (with Display UL94HB) approved
<b>Protection class</b>	Enclosure IP65 / NEMA4, remote probe IP20
<b>Temperature range</b>	working temperature probe -25 ... +50 °C (-13...122°F)
	working temperature electronic -10 ... +50 °C (14...122°F)
	storage temperature -30 ... +60 °C (-22...140°F)
<b>Working range humidity</b>	5...95 % RH (non-condensing)



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