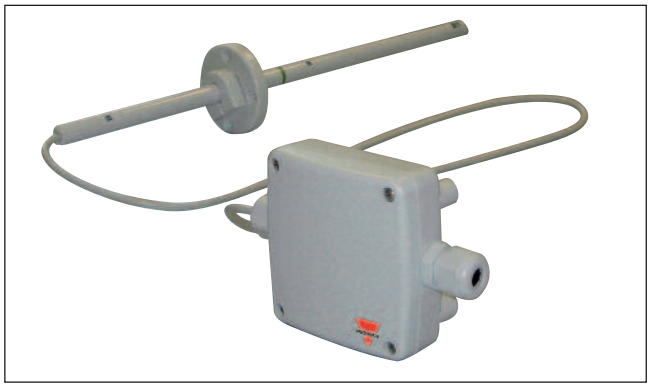
Environmental Sensors
Air Velocity Transmitter



- Low angular dependence
- Easy installation
- Adjustable to application requirements
- HVAC applications
- Remote sensor probe
- Probe lenght 1m
- CE, RoHS

Product Description

The air velocity transmitter is ideal for accurate ventilation control applications. It operates on an innovative hot film anemometer principle.
The thin film sensor guarantees very good accuracy at low air velocity, which is not possible for conventional anemometers with commercial temperature sensors or NTC bead thermistors. Moreover, the sensor is much more insensitive to dust and dirty than all other anemometer principles. This means high reliability and low maintenance costs.
CGESAIRVEL is available with current or voltage output, the measuring range and the response time can be selected with jumpers by the user.
Low angular dependence enables easy, cost-effective installation.

Approvals

CE RoHS COMPLIANT

Ordering Key

CGESAIRVEL

Model

General Data

Power supply		**SELV 24V AC/DC ± 20 %** **SELV = Safety Extra Low Voltage**
Current consumption	AC supply	**max. 150mA**
	DC supply	**max. 90mA**
Angular dependence		**<3% of measurement** **@ | Δα | <10°**
Electromagnetic compatibility		**EN 50081-1, EN 50082-1** **EN 50082-2**

Temperature range	
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**

Measuring Values

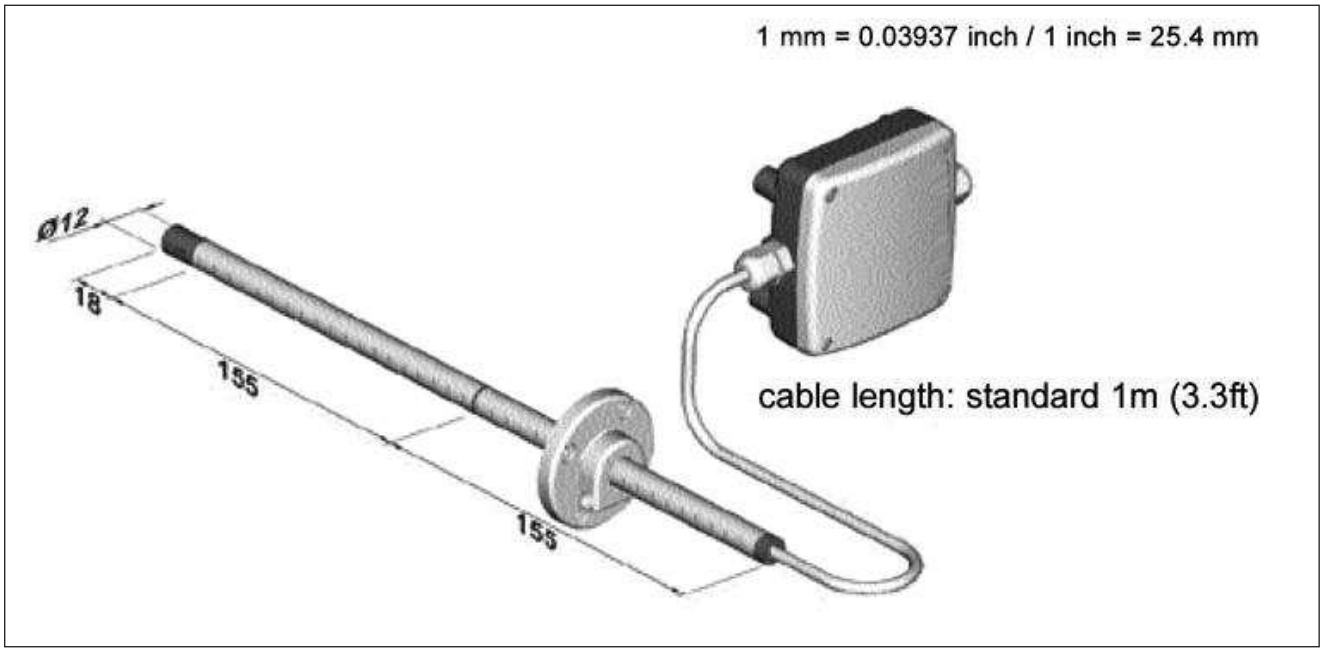
Working range		**0...10m/s (0...2000ft/min)** **0...15m/s (0...3000ft/min)** **0...20m/s (0...4000ft/min)**
Output 0...10m/s / 0...15m/s / 0...20m/s	0-10V 4-20mA	**-1mA <I_L <1mA** **R_L< 450Ω**
Accuracy @ 20°C/68°F, 45%RH and 1013hPa		**0.2...10m/s(40...2000ft/min)** **±(0.2m/s / 40ft/min +3% of m.v.)** **0.2...15m/s (40...3000ft/min)** **±(0.2m/s / 40ft/min +3% of m.v.)** **0.2...20m/s (40...4000ft/min)** **±(0.2m/s / 40ft/min +3% of m.v.)**
Response time τ90		**typ. 4s or typ. 0.2s** **(@ constant temperature)**

Mechanical Data

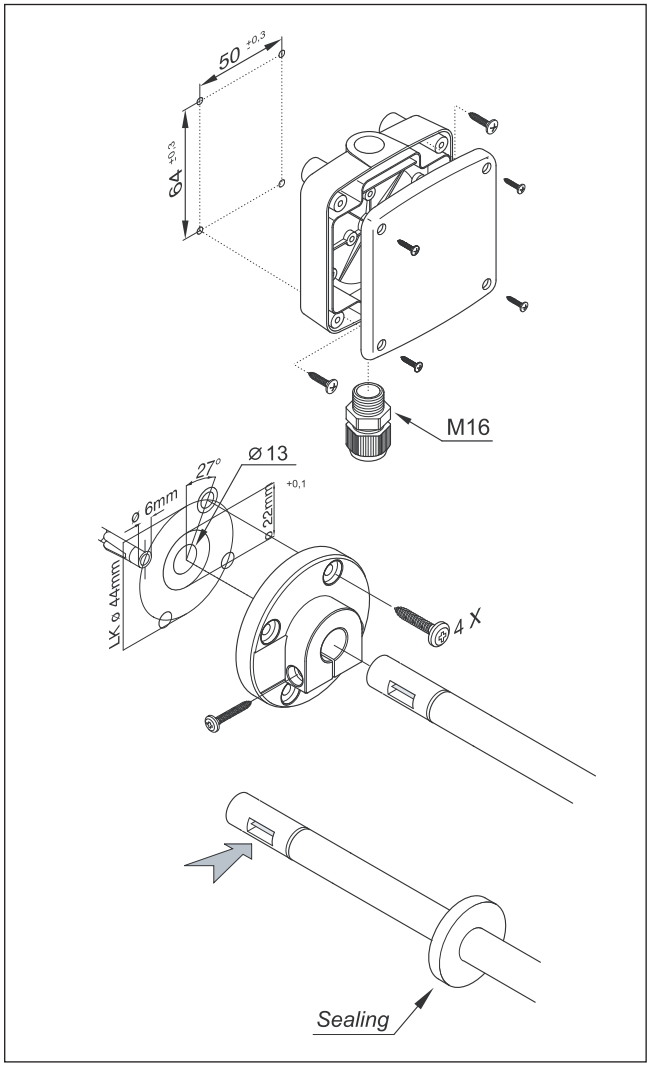
Housing/Protecting Class	**Polycarbonat/IP65, Nema 4**
Electrical connection	**Screw terminals** **max. 1.5mm² (AWG 16)**
Cable Gland	**M16x1.5** **cable Ø4.5-10mm (0.18-0.39")**
Cable Lenght	**1m / 3.3ft**

CARLO GAVAZZI

Dimensions



Mounting



Connection Diagram