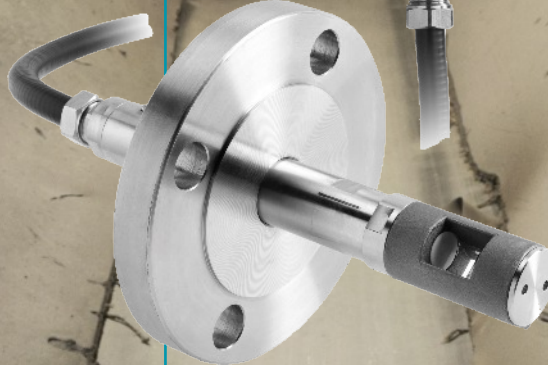
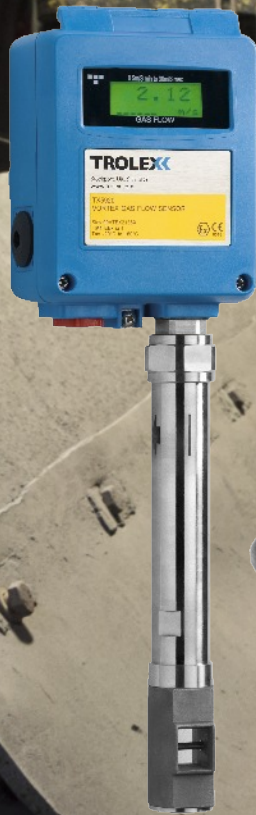


VORTEX GAS FLOW SENSOR/ TRANSMITTER



FLOW VELOCITY/VOLUME
measurement of air, gases &
vapours in heavy duty applications

– numerous mounting options;
pipe insertion, open flow & in-line versions

precise

High accuracy response with dynamic linearity correction.

configurable

Choice of analogue output signal:
4 to 20mA • 0.4 to 2V • 5 to 15Hz.

- Configurable signal turndown & response linearity in true engineering units.
- Configurable signal damping and display suppression.
 - Volumetric flow calculation facility.

convenient

Clear LCD readout of signal values and all function mode parameters.

- Simple pushbutton scaling to match on-site parameters

– signal offset, elevated zero, etc.

intrinsically safe

Certified Ex ia for use in Group I (Category M1) and Group II (Category 1) hazardous areas.



ATEX
Ex ia
GROUP I M1
GROUP II 1G
INTRINSICALLY
SAFE

TUNNELS

•
PIPELINES

•
ROADWAYS

•
VENTILATION
DUCTS

•
MINING

•
PROCESS
INDUSTRIES



low maintenance

*No moving parts, self-cleaning
vortex sensing head gives*

long term stability.

technical details...

INSERTION FLOW SENSORS

**TX5921
 REAR PROJECTING
 SENSOR**



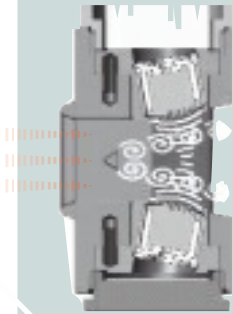
**TX5922
 SIDE PROJECTING
 SENSOR**



**TX5923
 REMOTE
 SENSOR**



Application	Insertion into gas pipes, ventilation ducts & vapour tubes.	Suspend in roadways & passages for open flow monitoring of ventilation.	Remote connected control unit for systems where space is restricted at the flow monitoring point.
Process Media	Gas, air, steam, saturated gases and vapours.		
Flow Measuring Range	Rangeable from 0.5 to 5 m/s up to 0.5 to 30 m/s linear flow velocity.		
Accuracy	±2% characterised to the sensing element (within 12.5° rotation of flow axis).		
Linearity	±1% (within 12.5° rotation of flow axis).		
Housing Temperature	-15 to +50°C.		
Sensor Temperature	-15 to 150°C (200°C available to specification).		
Humidity	0 to 95% non condensing.		
Protection Classification	Dust and waterproof to IP66.		
Housing Material	Stainless steel reinforced polyimide 6.		Stainless steel reinforced polyimide 6 with PVC coated flexible conduit to the sensor.
Sensor Material	Stainless steel (PTFE coated versions available to specification).		
Sensor Static Pressure	20 bar.		
Process Fitting	<ul style="list-style-type: none"> • 1 1/2" BSP mounting bush. • 50 mm ANSI Flange. (also available with welded process fittings for high pressure applications to specification). 	Wall mounting	<ul style="list-style-type: none"> • 1 1/2" BSP mounting bush. • 50 mm ANSI Flange. (also available with welded process fittings for high pressure applications to specification).
Cable Entry	2 x M20.		
Nett Weight	1.5 kg.	1.5 kg.	2.5 kg.
Information Display	17 character dot matrix LCD		
Setup Functions	<ul style="list-style-type: none"> • Zero • Span • Signal offset 	<ul style="list-style-type: none"> • Turndown • Volumetric Calculation • Engineering units 	<ul style="list-style-type: none"> • Signal damping • Display suppression • Text language




...reliable,
 accurate
 response

electrical details...


GENERAL PURPOSE APPLICATIONS

Output Signal:	4 to 20 mA
Max. Load:	600 ohms at 24 dc
Power Supply:	10 to 30 V dc
Max. Current:	40 mA

GROUP II APPLICATIONS

Output Signal:	4 to 20 mA	 GROUP II Ex ia IIC T4 Ga
Max. Load:	600 ohms at 24 V dc	
Power Supply:	10 to 30 V dc	
Max. Current:	40 mA	

GROUP I APPLICATIONS

Output Signal:	4 to 20 mA	0.4 to 2 V	5 to 15 Hz	 GROUP I Ex ia I Ma
Max. Load:	300 ohms at 12 V dc	10K ohms at 12 V dc	Opto isolated 2 mA max.	
Power Supply:	6.5 to 16.5 V dc			
Max. Current:	40 mA	15 mA	30 mA	

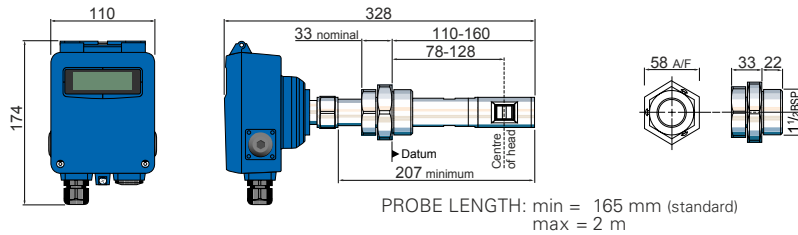
...choice of
 mounting
 options

CE Designed to comply with the requirements of the EC directive on: ATEX directive 94/9/EEC
 EMC directive 2004/108/EEC



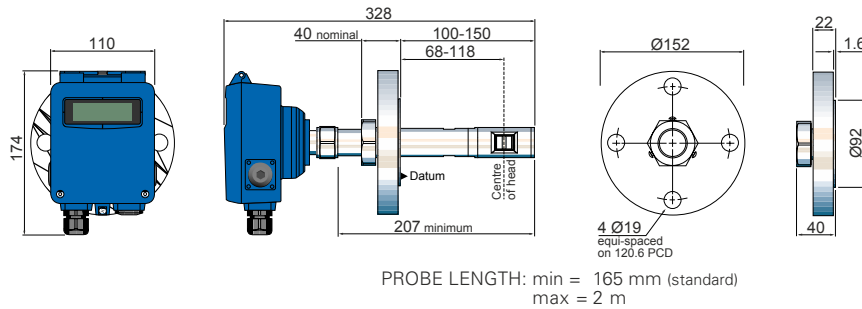
choice of mounting options...

TX5921 REAR PROJECTING SENSOR with 1 1/2" BSP MOUNTING BUSH



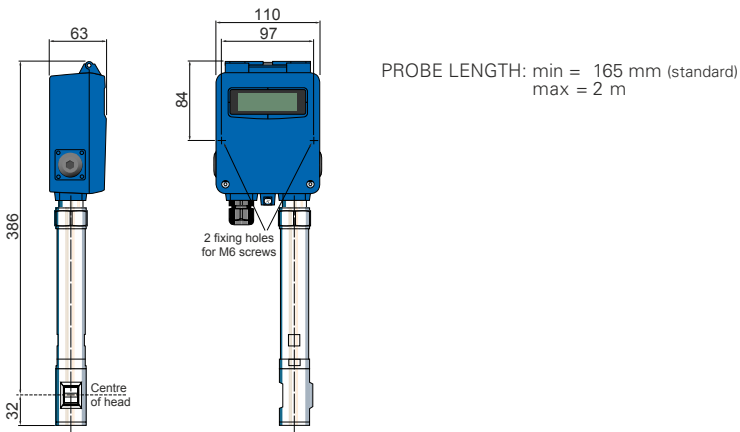
NB:
Housing can be rotated through 300° with respect to the sensing head.

TX5921 REAR PROJECTING SENSOR with 50 mm ANSI MOUNTING FLANGE



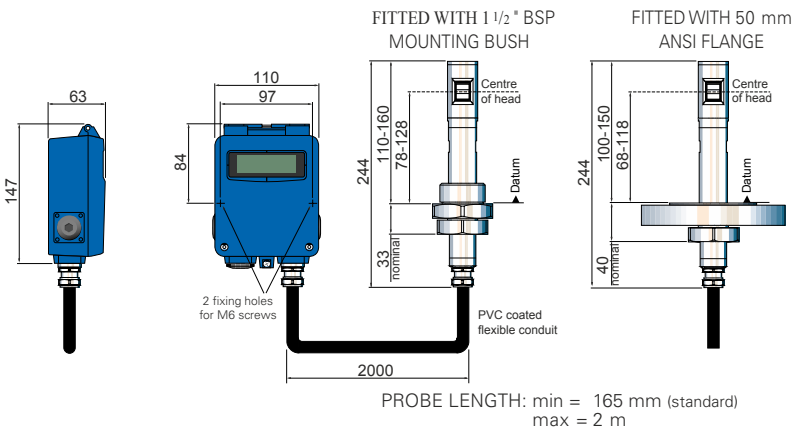
NB:
Housing can be rotated through 300° with respect to the sensing head.

TX5922 SIDE PROJECTING SENSOR



NB:
Housing can be rotated through 300° with respect to the sensing head.

TX5923 REMOTE SENSOR



All dimensions in mm

order reference...

INSERTION VORTEX GAS FLOW SENSORS

Please specify additional information:

		CERTIFICATION		OUTPUT SIGNAL		MOUNTING
TX5921	VORTEX GAS FLOW SENSOR/TRANSMITTER Rear Projecting Sensor. 	Ex Group I	(01)	4 to 20 mA (12)	0.4 to 2 V (11)	<ul style="list-style-type: none"> • 1 1/2" BSP Bush(22) • 50 mm ANSI Flange (21)
		Ex Group II	(02)	4 to 20 mA	5 to 15 Hz (13)	
		General Purpose	(03)	4 to 20 mA		
TX5922	VORTEX GAS FLOW SENSOR/TRANSMITTER Side Projecting Sensor. 	Ex Group I	(01)	4 to 20 mA (12)	0.4 to 2 V (11)	<ul style="list-style-type: none"> • Wall Mounting
		Ex Group II	(02)	4 to 20 mA	5 to 15 Hz (13)	
		General Purpose	(03)	4 to 20 mA		
TX5923	VORTEX GAS FLOW SENSOR/TRANSMITTER Remote Sensor. 	Ex Group I	(01)	4 to 20 mA (12)	0.4 to 2 V (11)	<ul style="list-style-type: none"> • 1 1/2" BSP Bush(22) • 50 mm ANSI Flange (21)
		Ex Group II	(02)	4 to 20 mA	5 to 15 Hz (13)	
		General Purpose	(03)	4 to 20 mA		

...for
 use in
 arduous
 conditions