Differential pressure sensor for portable applications

- Piezometric differential pressure sensors
- Measurement of the pressure in the two environments using the included silicon tubes. The sensor directly provides the difference of the two values
- Typical sector in which differential pressure sensor is applied is HVAC: verification of filters in the pipes, measurement of air flow in ventilation systems, testing of over-pressure environments
- Suitable for measuring the air speed when connected to Pitot tubes. When used with LSI LASTEM's data loggers, air speed values are directly calculated in m/s.
- ISO17025 accreditated internal laboratory for air speed measurements with Pitot tubes

Portable differential pressure probe for air and non-ionic and non corrosive gas. This sensor can be used together with Pitot tubes to measure air speed, LSI LASTEM data logger can calculate directly air speed from the differential pressure measurement.

Technical Specifications

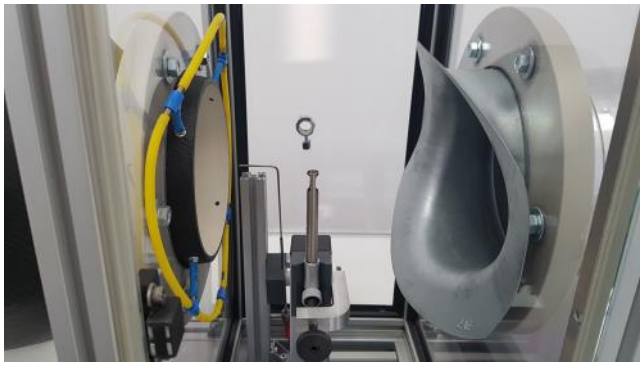
PN	ESP024	DQE524
Output	60...300 mV	4...20 mA
Cable + connector	L= 2 m + Mini DIN connector	L= 0.5 m + IP65 7 pin connector for DWA5nnA cables
Data logger compatibility	M-Log (ELO009)	E-Log, A-Log

Common Technical Specifications

Atmospheric pressure	Principle	Piezoelectric
	Range	0...16 hPa
	Resolution	0.01 hPa
	Accuracy	2% FS (20°C)
	Thermal drift	0.1 hPa/°C
General Information	Power supply	11...33 Vdc
	Power consumption	20 mA
	Zero calibration	Using external trimmer
	Overload	Max 1 Bar
	Weight	0.1 kg
	Protection	IP65
	Operative limits	-10...50°C, non ionic and non corrosive gas
	Silicon tubes	N.2 tubes L= 2 m included
	Input type on E/M/R-Log	N.1 analog
	E/M/R-Log derived quantities obtained	Air speed, using Pitot tubes

Accessories

	SVICA5103	Calibration certificate. ISO9001 type (Differential Pressure)
	SVACA2105	Calibration certificate. ISO17025 ACCREDIA type (Pitot tubes)
	BSE006	Pitot Tube, stainless steel. L=0.5 m, D=7mm
	BSE007	Pitot Tube, stainless steel. L=0,.5 m, D=7mm
	**DWA505A**	Cable L=5 m for DQE524 sensor
	DWA510A	Cable L=10 m for DQE524 sensor
	DWA525A	Cable L=25 m for DQE524 sensor
	DWA526A	Cable L=50 m for DQE524 sensor
	DWA527A	Cable L=100 m for DQE524 sensor
	**MG2251.R**	7 pin free female connector
	**MAGFA2003**	Fixing kit for Pitot tube to pipe



LSI LASTEM is an ISO17025 accreditated laboratory for air speed measurements. All sensors manufactured are tested inside this laboratory. LSI LASTEM provides Test report for any sensor supplied and on request, ISO17025 or ISO9001 calibration certificates (see Accessories list).

LSI LASTEM Srl
Via Ex SP. 161 Dosso, 9
20049 Settala (MI)
Italy

Tel. +39 02 954141
Fax +39 02 95770594
Email info@lsi-lastem.com
www.lsi-lastem.com