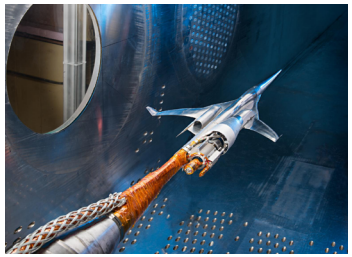

AERODYNAMIC RESEARCH SENSORS

Pressure scanners and associated data systems allow engineers and scientists to acquire large amounts of pressure measurements for crucial aerodynamic research. TE Connectivity (TE) offers one of the most comprehensive portfolios of test & measurement (T&M) sensors in the industry including sensors for aerodynamic research. NetScanner pressure scanners and miniature ESP pressure scanners from the legacy brand, Pressure Systems Inc. (PSI), coupled with Initium and Optimus Data Systems provide the most accurate and durable pressure scanning solutions for turbomachinery, wind tunnel and flight-testing markets.

- PRESSURE SCANNERS
- MINIATURE PRESSURE SCANNERS
- DATA SYSTEMS
- ACCESSORIES

QUALITY CERTIFICATIONS

- RoHS Scope Assessments Available

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SENSORS FOR AERODYNAMIC RESEARCH

Pressure Scanners

	Model	Type	Channels	Accuracy	Ranges	Throughput/Speed	Temperature Range [°C]	Typical Applications
	9216	16 Channel Pressure Brick	16	±0.05% Full Scale	10" H_2O to 1100 PSI	500 Hz Per Port	-30 to +80	Pressure scanning on or near engine within test cell
	9916	16 Channel Rack Scanner	16	±0.05% Full Scale	10" H_2O to 850 PSI	100 Hz Per Port	0 to +60	Pressure scanning from within control room location
	98RK	Rack for 9916 & 9816	128	±0.05% Full Scale	10" H_2O to 850 PSI	100 Hz Per Port	0 to +50	Rack for 9816 and 9916 pressure scanners with three connections for barometers, calibrators, and standards
	9032	Barometer	1	±0.05% Full Scale	11 to 16 PSIA	10 Hz	0 to +50	Barometric monitoring to sum with pressure scanner for absolute data
	9034	Pressure Calibrator	1	±0.05% Full Scale	1 to 1200 PSIA	10 Hz	0 to +50	In-situ pressure calibration of scanners for verification before engine test

Miniature Pressure Scanners

	Model	Type	Channels	Accuracy	Ranges	Throughput/Speed	Temperature Range [°C]	Typical Applications
	64HD	Miniature Pressure Scanner	64	±0.03% Full Scale	14" H_2O to 100 PSI	500 Hz Per Port	0 to +80	In-model windtunnel testing, aircraft flight testing and automotive track testing
	32HD	Miniature Pressure Scanner	32	±0.03% Full Scale	4" H_2O to 150 PSI	1000 Hz Per Port	0 to +100	High speed acquisition for wind engineering and turbulence measurements
	16HD	Miniature Pressure Scanner	16	±0.03% Full Scale	4" H_2O to 150 PSI	500 Hz Per Port	0 to +80	In-model windtunnel testing, aircraft flight testing and automotive track testing
	4602	Accelerometer	Single Axis or Tri-Axial	<2.0% Total Error Band	2 to 200 g	2.7 kHz Frequency Response	-55 to +125	Accelerometer for flutter testing of model within windtunnel
	EPL	Surface Mount Pressure	12	±0.5 % Full Scale	5 to 1000 PSI	70 kHz Frequency Response	-40 to +90	Dynamic pressure measurement on aerodynamic surfaces
	16MS	Direct Mount Scanner	16	±0.05% Full Scale	4" H_2O to 180 PSI	2000 Hz Per Port	0 to +80	Motorsports aerodynamics, hypersonic missile flight testing

SENSORS FOR AERODYNAMIC RESEARCH

	Data Systems							
	Model	Type	Channels	Accuracy	Ranges	Throughput/Speed	Temperature Range [°C]	Typical Applications
	FDS1	Flight Data System	512	±0.05% Full Scale	4" H_2O to 150 PSI	1080 Hz Per Port	0 to +70	Flight data system located within fuselage for 1-8 64HD or 32HD pressure scanners
	Initium	Data System	512	±0.05% Full Scale	4" H_2O to 150 PSI	1080 Hz Per Port	0 to +50	Data system for up to eight pressure scanners popular for wind tunnel testing
	Optimus	Data System with Calibrators	2048	±0.03% Full Scale	4" H_2O to 150 PSI	1575 Hz Per Port	0 to +50	Highest accuracy data system with online calibration for aerospace windtunnels

SENSORS FOR AERODYNAMIC RESEARCH

Accessories							
Model	Type	Channels	Accuracy	Ranges	Details	Temperature Range [°C]	Typical Applications
 QDCC	Circular Quick Disconnect	19, 37, 55, 73	-	4" H_2O to 750 PSI	0.040" and 0.063" Tubes	-55 to +100	Pneumatic quick disconnect, socket head screw connections
 QDCS	Rectangular Quick Disconnect	20, 36, 52	-	4" H_2O to 750 PSI	0.040" and 0.063" Tubes	-55 to +100	Pneumatic quick disconnect, rectangular shaped for form factor installations
 QDCM	Miniature Quick Disconnect	19, 31, 36, 55	-	4" H_2O to 150 PSI	0.025" and 0.040" Tubes	-40 to +80	Miniature pneumatic quick disconnect, small diameter tubes
 STP2	Tool - Tubing Pliers	1	-	-	Hand Tool	-55 to +100	Attach tubing and retaining springs to scanner tubes
 Reducer	Tubing Size Converter	1	-	-	0.040", 0.063", 0.125", 0.250"	-55 to +100	Convert tubing diameters, also use within compression fittings
 Multi Connectors	Manifold For Multiple Tubes	8, 9, 17, 18	-	-	0.040" or 0.063" Tubes	-55 to +100	Combines multiple tubes, used for calibration or reference connections