

SCANNERS AND SYSTEMS

The test and measurement group of TE Connectivity provides data systems based on the electronic pressure and temperature scanners of legacy brand Pressure Systems (PSI). These products have been developed specifically for wind tunnel testing, flight testing and turbomachinery test and measurement applications. Extensive factory calibration combined with custom MEMS-like technology provide system solutions with high accuracy digital interface to host computers and networks. Pressure ranges are available from 1.3” H₂O (300 Pa) to 10,000 psi (69 MPa). Temperature inputs can be acquired from standard and custom thermocouples as well as RTDs. Software is included with each solution.



PRESSURE AND TEMPERATURE

NetScanner Complete Data Acquisition Devices



MEAS 9116

Measurement Type	Pressure
Media	Dry
Accuracy	±0.05% FS
# of Channels	16
EU Throughput Rate	500 Hz
Enclosure	IP66 / 30 g vibration
Typical Applications	Engine testing, portable data acquisition, wind tunnel research, process monitoring



MEAS 9146-R

Measurement Type	Temperature
Media	RTD / TC / Volt
Accuracy	±0.25°C
# of Channels	16 / 32
EU Throughput Rate	33 Hz
Enclosure	IP66 / 30 g vibration
Typical Applications	Engine testing, portable data acquisition, wind tunnel research, process monitoring



MEAS 9146-T

Measurement Type	Temperature
Media	TC
Accuracy	±0.25°C
# of Channels	16
EU Throughput Rate	33 Hz
Enclosure	IP54 / 30 g vibration
Typical Applications	Engine testing, portable data acquisition, wind tunnel research, process monitoring



MEAS 9022

Measurement Type	Pressure
Media	Liquid
Accuracy	±0.05% FS
# of Channels	12
EU Throughput Rate	100 Hz
Enclosure	IP64 / 30 g vibration
Typical Applications	Engine testing, third party transducers, close coupled requirements, high pressure

PRESSURE

NetScanner Complete Data Acquisition Devices



MEAS 9032

Measurement Type	Barometer
Media	Dry
Accuracy	±0.01% FS
# of Channels	1
EU Throughput Rate	10 Hz
Enclosure	Laboratory grade
Typical Applications	Barometric monitor, precision reference



MEAS 9034, 9038

Measurement Type	Calibrator
Media	Dry
Accuracy	±0.01% FS
# of Channels	1
EU Throughput Rate	10 Hz
Enclosure	Laboratory grade
Typical Applications	Calibration, transfer standard, verification testing



MEAS 98RK-1, 9816

Measurement Type	Pressure
Media	Dry
Accuracy	±0.05% FS
# of Channels	128
EU Throughput Rate	100 Hz
Enclosure	19" rackmount / 4U
Typical Applications	Turbine engine test, control room location



MEAS Flight Data System

Measurement Type	Pressure
Media	Dry
Accuracy	±0.05%
# of Channels	512
EU Throughput Rate	10 / 100 Base-T
Enclosure	Flight grade
Typical Applications	Flight testing

PRESSURE SCANNERS

Miniature High Density Pressure Scanners



MEAS 64HD DTC

Type	Pressure
Media	Dry
Accuracy	±0.03% FS
# of Channels	64
Thermal Comp.	Active (DTC)
Port Sizes (Inches)	0.040
Typical Applications	Wind tunnel research, flight test, on vehicle research



MEAS 32HD DTC

Type	Pressure
Media	Dry
Accuracy	±0.03% FS
# of Channels	32
Thermal Comp.	Active (DTC)
Port Sizes (Inches)	0.040 or 0.063
Typical Applications	Wind tunnel research, flight test, on vehicle research



MEAS 64HD, 32HD, 16HD

Type	Pressure
Media	Dry
Accuracy	±0.05% FS
# of Channels	64, 32 or 16
Thermal Comp.	Passive
Port Sizes (Inches)	0.040 or 0.63
Typical Applications	Wind tunnel research, flight test, on vehicle research



MEAS MicroScanner

Type	Pressure
Media	Dry
Accuracy	±0.05%
# of Channels	16
Thermal Comp.	Active
Port Sizes (Inches)	Direct mount
Typical Applications	For confined space, wind tunnel, flight test

DATA ACQUISITION SYSTEMS

Multi-Scanner Data Acquisition Systems



MEAS Optimus

Type	Pressure scanning
Media	Dry
Accuracy	±0.03% FS
# of Channels	2048
EU Throughput Rate	2000 Hz
Enclosure	Laboratory grade
Typical Applications	Aerospace development



MEAS Initium

Type	Pressure scanning
Media	Dry
Accuracy	±0.05% FS
# of Channels	512
EU Throughput Rate	1200 Hz
Enclosure	Laboratory grade
Typical Applications	Wind engineering



MEAS Interface

Type	A/D conversion
Media	Dry
Accuracy	±0.05% FS
# of Channels	512
EU Throughput Rate	2000 Hz
Enclosure	Miniature
Typical Applications	In-model placement, Optimus System interface



MEAS Pneumatics

Type	Quick disconnect
Media	Dry
Accuracy	—
# of Channels	19, 31, 36, 55
EU Throughput Rate	—
Enclosure	Miniature
Typical Applications	Pressure connections for confined spaces