Mil-Spec and Agency Approved Sensors
Measurement and Control of Pressure, Force, Strain, and Temperature Applications for Land, Sea, Air, and Space
OMEGADYNE® . . .  
When Simply the Best is Required!  
Mil-Spec and Rugged Commercial Products

On-Board Gas Generation Systems
Fuel Delivery Systems
Refrigeration Systems
Weapons Systems
Hydraulic Systems
Satellite Fuel Pressure
Rocket Fuel Supply Systems
Mine Detection Systems
Submarine Pressure Switches
Flight Certified Pressure Transducers
Mil-Spec Marine Transducers
Military & Commercial Aircraft
Surface & Sub-Surface Vessels

Diffused Semiconductor
✔ High Stability
✔ Zero Creep
✔ High Shock and Vibration Performance

The small size and light weight of the PX4600 series and typical MTBF of 100,000 hours make them ideal for tough vibration and shock environments found in the harshest military and industrial environments. The unusually high performance of this transducer comes from the 4-active-arm-bridge sensor using a micro-machined diffused silicon diaphragm and proprietary thin film media and dielectric isolation barriers. Laser trimmed resistors provide excellent temperature compensation from -55 to 121°C (-65 to 250°F), and adjust the zero balance and span to very tight tolerances. Custom treatments such as heat cycling and stress aging are available to further enhance the performance of the PX4600 transducer.

Agency Approved products meet specific testing specifications by one or more of the appropriate testing agencies. Some of the well known agencies are Factory Mutual (FM), Underwriters Labs (UL), Canadian Standards Association (CSA), and European Certified Product (CE).
MM Series
✓ Very High Accuracy
✓ Premium Temperature Performance
✓ All Stainless Steel Wetted Parts

Our new micro-machined silicon technology creates a very rugged sensor coupled with our modular design concept to create a high performance transducer line that can be delivered quickly in over a million combinations. The construction uses a small volume of oil to transfer the pressure from the diaphragm (316 SS or high nickel alloy) to the micro-machined silicon sensor. This construction technique provides a very rugged transducer with exceptional accuracy, stability and thermal effects. A unique design feature ruggedizes the transducer by providing secondary process fluid containment in the event of a diaphragm rupture. See our online configurator at omegadyne.com/config

Sputtered Thin Film
✓ High Accuracy
✓ High Durability
✓ All Stainless Steel Wetted Parts

Our sputtered thin film technology is the core of our PX5000 series transducers. The strain gages are molecularly bonded to a stainless steel sensing beam resulting in all stainless steel wetted parts, and superior performance. This technology combined with advanced assembly techniques typically has a long term stability of 0.1% for 18 months, a combined static error band (linearity, hysteresis, repeatability) of 0.1% and excellent shock and temperature characteristics. Certain models can operate safely up to 175°C (350°F).
OMEGADYNE—CEC—T-Hydronics

OMEGADYNE is the combination of two companies with strong histories of building state-of-the-art pressure and force sensors to meet military and industrial needs—T-Hydronics and CEC Pressure Products—combined with the engineering strength and product resources of the OMEGA family of companies.

T-Hydronics was founded in 1981 as Thurman Hydronics and then shortened its name to T-Hydronics. It grew dramatically, specializing in thick film sensors. In 1993, the company built a new 20,000 square foot custom fabrication facility at its current location in Sunbury, Ohio.

CEC was founded in 1937 as the research arm of United Geophysical Company. CEC has a rich history in technological advances of process measurement sensors and instrumentation including cooperation with the U.S. Army Air Force to develop instrumentation for early flight tests for which CEC earned three Army/Navy “E” Awards. In 1960, CEC was acquired by the Bell & Howell Company. Technological advancements continued in many areas including the introduction of the sputtered thin-film strain gage pressure transducers and development of the diffused semiconductor pressure sensing element. CEC remained a subsidiary of Bell & Howell until 1983 when Transamerica Delaval acquired CEC Instruments.

In 1994, CEC Instruments was split into two companies—CEC Pressure Products and CEC Vibration Products. The Pressure Products group was purchased by T-Hydronics, a leading manufacture of strain based sensors located in Sunbury, Ohio. T-Hydronics then built an addition to its facility in Sunbury including three Class 100 Clean Rooms. The expansion was completed in late 1994 and CEC Instruments was relocated to the T-Hydronics facilities with its manufacturing equipment and senior personnel. The system was then inspected and approved by leading government contractors. CEC was up and running as part of T-Hydronics, manufacturing the same high quality thin film and diffused semiconductor pressure products it was known for.
A Long History of Mil-Spec Products!

In 1995, T-Hydranics became part of the OMEGA Engineering family of companies and changed its name to OMEGADYNE. Through this affiliation it has greatly expanded its manufacturing capabilities and can now offer customers a broader range of products ranging from pressure and force sensors to thermocouples and process measurement and control instrumentation. All the CEC pressure products and T-Hydranics products are now available under the OMEGADYNE label.

Today, the Sunbury, Ohio facility has expanded again—exceeding 35,000 square feet—to accommodate additional clean rooms and more production facilities for our micro-machined silicon technology. Our engineering and manufacturing capabilities continue to advance the technology in Micro-Machined Silicon, Diffused Semiconductor, Sputtered Thin Film, and Thick Film sensors for Pressure, Differential Pressure, Low Pressure, Load, Force, and Torque as well as full custom design capabilities. OMEGADYNE also continues the CEC tradition of close cooperation with our armed forces supplying custom designed and Mil-Spec qualified transducers for applications for land, sea, air and space. OMEGADYNE has collaborated with the US Government and met its stringent MIL-Spec requirements. OMEGADYNE has also developed a full series of marine transducers to meet the new MIL-T-24742(SH) standard and ASTM F2070 when invoked.

Omegadyne and Omega Companies Cage Codes

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<thead>
<tr>
<th>Company</th>
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<td>Vanzetti Systems, Inc.</td>
<td>Cage - 50973</td>
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<tr>
<td>NEWPORT ELECTRONICS, INC.</td>
<td>Cage - 32873</td>
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Pressure Transducer for Submarine Service

Model No.: OD-1442Z  
Technology: Sputtered Thin-Film  
Applications: Ship and Submarine  
Key Feature: Complete material traceability  
Output: 0 to 5 Vdc

On this version of our sputtered transducer, we provided complete material traceability. The body, diaphragm and fittings were all machined from the same stock with traceability back to the mill.

Differential Pressure Switch for Submarine Service

Model No.: OD-1241Z  
Technology: Thick Film  
Applications: Weapons Systems  
Key Features: Reliability, Accuracy  
Output: 4 to 20 mA

Our precision thick film sensors provide the high accuracy and reliability needed for a critical application in a weapons system. OMEGADYNE manufactures the close tolerance pressure sensing elements on its CNC turning centers and then assembles and tests the transducer and housing to the highest “Mil-Spec” quality standards.
Pressure Transducer
Designed to MIL-T-24742(SH) and ASTM F2070

Model No.: PX2471
Technology: Sputtered Thin-Film
Applications: Ship and Submarine
Key Feature: Interchangeable with MIL-P-24742(SH) products
Output: 4 to 20 mA

The Model PX2471 Pressure Transducer has been designed to meet the stringent requirements of military standard MIL-T-24742(SH) and when invoked ASTM specification F2070. Applications include naval shipboard use, both surface and sub-surface vessels, as well as general maritime uses. The Model PX2471 is available in pressure ranges from 15 to 10,000 psi. The signal output is 4 to 20 mA (2 wire current) widely used for recording or control purposes.

Direct Replaceability: The Model PX2471 has also been designed to be directly interchangeable with other existing pressure transducers designed to MIL-P-24212C(SH) when used with mounting plate assembly A019852. Custom ranges and variations are also available.
DC Powered Marine Pressure Transducer

*Designed to MIL-P-24212C(SH)*

**Model No.:** PX2422  
**Technology:** Sputtered Thin-Film  
**Applications:** Ship and Submarine  
**Key Feature:** Interchangeable with MIL-P-24212C(SH) products  
**Output:** 4 to 20 mA

The Model PX2422 Pressure Transducer has been designed to meet the stringent requirements of military standard MIL-P-24212C(SH). Applications include naval shipboard use, both surface and sub-surface vessels, as well as general maritime uses. The Model PX2422 is available in pressure ranges from 15 to 10,000 psi. The signal output is loop powered 4 to 20 mA (2 wire current) widely used for recording or control purposes. Custom variations of this transducer are available with bi-directional low pressure ranges as low as ±10" WC.

**Direct Replaceability:** The Model PX2422 has been designed to be directly interchangeable with other existing pressure transducers designed to MIL-P-24212C(SH).
AC Powered Marine Pressure

*Designed to MIL-P-24212C(SH)*

**Model No.:** PX2421  
**Technology:** Sputtered Thin-Film  
**Applications:** Ship and Submarine  
**Key Feature:** Interchangeable with MIL-P-24212C(SH) products  
**Output:** 4 to 20 mA

The Model PX2421 Pressure Transducer has been designed to meet the stringent requirements of military standard MIL-P-24212C(SH). Applications include naval shipboard use, both surface and sub-surface vessels, as well as general maritime uses. The Model PX2421 is available in pressure ranges from 15 to 10,000 psi. The transducer is powered by 115 Vac, 60 Hz, single phase power. The rugged electronics provide a 4 to 20 mA (2 wire current) output signal proportional to the input pressure measured that can be used for recording or control purposes. Custom variations of this transducer are available with bi-directional pressure ranges as low as ±10" WC.

**Direct Replaceability:** The Model PX2421 has been designed to be directly interchangeable with other 115 Vac powered pressure transducers designed to the MIL-P-24212C(SH) standard.
Temperature and Pressure Switch for Commercial Aircraft

Model No.: OD-3830Z  
Technology: Diffused Silicon  
Application: Auxiliary Power Unit  
Key Features: Temperature and Pressure  
Output: 0 to 50 mVdc

This unit monitors the temperature and pressure on a popular commercial passenger aircraft. Our custom semiconductor pressure sensor is isolated away from the hot air flow (mounted in the housing) while a miniature precision OMEGA® RTD element is positioned in the middle of the hot air stream to assure both accurate temperature and pressure measurements.
Pressure Transducer for Commercial Aircraft

Model No.: OD-3667Z
Technology: Diffused Silicon
Application: Wing De-Icing
Key Features: Reliability, Temperature Extremes
Output: 0 to 5 Vdc

Our semiconductor sensor provides the temperature range and reliability needed for a critical application such as wing de-icing. Flight certified reliability, ranges from 10 to 300 psi gage or absolute, make this version of our semiconductor sensor a popular choice among commercial aviation.

Pressure Transducer for Commercial Aircraft

Model No.: PXM-5000Z
Technology: Sputtered Thin-Film Sensor
Application: Commercial Aircraft
Key Feature: Metric Dimensions
Output: 0 to 5 Vdc

This all metric version of our PX5000 series sputtered thin-film sensor transducer made the stability and reliability of this sensor available to the worldwide market requiring metric threads, dimensions and ranges. Ranges from 1 to 300 bar.
MM Series Custom Pressure Transducers
Micro-Machined Silicon
Engineered Solutions

Designed to Meet Your Needs!
The MM Series is one of the most flexible transducer systems in the marketplace today. You can have your pick of pressure ports, electrical outputs and terminations, pressure ranges and units, accuracies, temperature compensation range, thermal accuracies and options like trim pots, shunt resistors and more.

Online Configurator
The online configurator for the MM Series can be found at omegadyne.com/config. The configurator will walk you through the selection of the exact specifications you need for your project.

Work with Our Experienced Application Engineers
If you cannot find exactly what you need, contact our application engineers at 1-800-USA-DYNE® (1-800-872-3963) to discuss your needs. OMEGADYNE® application engineers have over 100 years of combined experience. They are available whenever you need help designing the perfect measurement or control solution. If, for example, your application would benefit from a custom transducer, they’ll choose the right model and take you through the process step-by-step.

Fast Delivery! — Stock to 1 Week!
OMEGADYNE keeps a large stock of most popular models in stock for same day shipment! Plus, the MM Series is so flexible that thousands of combinations are available in as little as 1 week lead time!
MMDWU100C1P5C0T3A5
100 psi range, 4 to 20 mA output, 0.40% accuracy, cable termination, $715, shown actual size, visit omegadyne.com/mmseries

CMMA250C1P3Z14T3A5S, custom absolute pressure transducer with ¼” tube connection, $752, visit omegadyne.com/mmseries

Sanitary Flange Models Available!
Visit omegadyne.com/config for Details

Only at omegadyne.com/config

The Pressure Transducer Configurator
The Fastest and Easiest Way to Build Your Own Pressure Transducer!

Visit omegadyne.com/config for our Pressure Transducer Configurator

OMEGADYNE
CEC Pressure Products
OMEGADYNE, INC.: Cage - 09AL6

1-800-USA-DYNE
Pressure Transducer for Industrial Application

Model No.: PX35Z
Technology: Thick Film
Application: Industrial
Key Feature: 6-Wire Connection
Output: mV/V

Our customer wanted to use our PX35 series transducers but had an installation where the supply voltage varied significantly. OMEGADYNE designed and supplied this transducer with a 6-wire bridge connection to allow for supply voltage compensation.

Load Cell for Industrial Application

Model No.: LDZ-1402
Technology: Thick Film
Application: Industrial Force
Key Feature: High Accuracy
Output: mV/V

Our customer needed an extremely high accuracy force cell to be used as a calibration standard. This flange mount design provides 0.05% accuracy and proven long term stability allowing annual recertification. Available in ranges from 24 to 30,000 lb compression these sensors come with built-in overload protection as an added feature.
Multipin Thermocouple Connectors

*Designed to Meet the Performance Requirements of MIL-C-26500E*

**Style:** MTC  
**Maximum Service Temperature:** 200°C (392°F)

Although MTC Pins do not carry a Mil-Spec number, they do meet the performance requirements of MIL-C-26500E and are intermateable with MIL-C-26500 connectors.

The OMEGA® sturdy multipin connectors provide an efficient means of joining multiwire thermocouple cables. They can be used with multi-pair OMEGA extension wire for rapid, convenient connections and for dismantling an apparatus test system and apparatus without handling individual sensors. When used with MTC Series pins, the connector design utilizes a combination of resilient and rigid dielectric insulators to eliminate internal air voids and prevent the passage of air and moisture into or through the connector. Connectors can withstand ambient temperatures to 200°C (392°F), contributing to an extended connector life. Available in bulkhead or in-line fittings.

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**Thermocouple Contacts**

*Precision CNC Machined*

**MTC Series For MTC Connector Bodies**

Available in all thermocouple alloys for calibrations J, K, T, E, N and gold-plated copper.

OMEGA® push-in crimp style contacts are manufactured from high-quality thermocouple alloy materials and are generically color-coded for easy identification. Contacts are crimp-terminated outside the connector assembly and inserted into the appropriate cavity by means of an insertion tool. They can be readily removed from the connector assembly using a special removal tool. Sealing plugs are available to seal unused positions in lieu of pin or socket.
If you have to monitor a 200,000 lb force, you know how difficult it is to find an accurate, reliable sensor. OMEGADYNE modified the LC901 through hole sensor series to monitor just such a force. The installation had a large load supported by several suspension bolts with each having a 200,000 lb capacity. A 3¾" diameter clearance hole was needed for these bolts. OMEGADYNE modified its design and provided the solution.
Load Cell for Industrial Application

Model No.: LCZ-2012
Technology: Thick Film
Application: Industrial Weighing
Key Feature: Shear Beam Design
Output: mV/V

The customer had severely limited space requirements and needed a structural member that would double as a weigh scale. OMEGADYNE designed this sideways shear platform scale. The shear design gives it the high off center loading resistance needed to be a structural member and the sensitivity and accuracy needed to monitor weight. Designed for 3 or 6" off center loading with ranges to 6000 lb.

Pressure Transducer for Oil Field Application

Model No.: PX91Z
Technology: Thick Film
Application: Oil Field
Key Feature: Durability
Output: 4 to 20 mA

Out in the oil field, pressures are high and a hammer is often as good as a wrench. Our customer needed a high accuracy transducer that could survive repeated installations and removals in a hammer-home fitting. OMEGADYNE designed this version of its PX91 high pressure transducers to fit the metal-to-metal seal hammer-home fittings used in the oil fields. It is durable enough to be lowered down an oil well and is available with ranges exceeding 15,000 psi.
Load Cell for Industrial Application

Model No.: LCZ401
Technology: Thick Film
Application: Industrial Force
Key Feature: Custom Envelope
Output: mV/V and 0 to 5 Vdc

Our industrial customer had a press where structural members prevented the installation of any commercially available load cell. OMEGADYNE designed a custom envelope for its LC401 series load cell to fit the clearance requirements. The electrical connections also had to be relocated to a top-mount position. Later versions now incorporate a 0 to 5 Vdc amplifier in the same envelope.
Load Cells for Industrial Application

Model No.: LCZ-1602
Technology: Thick Film
Application: Batch Weighing
Key Feature: Compact Size
Output: mV/V

“I need a machine tool mount that will monitor force in two axes and provide structural integrity.” OMEGADYNE’s answer to that application need is our suspension ball system. Two load cells lock together and a ball mount allows the dynamic movement needed in a weighing application. If only one axis measurement is needed, the second load cell can be replaced with a non-active mounting foot. Ranges available to 10,000 lb.
Load Cell for Industrial Application

Model No.: LCZ-1502
Technology: Thick Film
Application: Batch Weighing
Key Feature: Double Shear Beam
Output: mV/V

How do you design a 150,000 lb load cell that can be quickly replaced? This custom double shear beam answered that customer’s requirements. Locating slots and a shaft key hold the load cell securely in place and allow for quick installation and removal. Ranges from 50,000 to 150,000 lb are available.

Load Cell for Industrial Application

Model No.: LCZ-1702
Technology: Thick Film
Application: Belt Tension
Key Features: Durable, Water Resistant
Output: mV/V

This rugged force sensor is mounted to a tie rod on a conveyor motor in a food processing facility.
Load Cell for Industrial Application

Model No.: LCZ-1501
Technology: Thick Film
Application: Industrial Robotics
Key Feature: Compact Size
Output: mV/V

A customer was automating his assembly operation. He needed a load cell to work as part of the robot’s arm to monitor the load on the arm. The available beams were all 1.5” square. OMEGADYNE designed a beam 1 inch square to fit this application. Ranges from 1000 to 3000 lb are available.
Commercial Off-the-Shelf (COTS) Products

**Wireless OMEGASCOPE®** High-Temperature, High-Performance Handheld Infrared Thermometer With Optional Sighting Scope and Distance Measurement

Wireless OMEGASCOPE®

OS523E Starts at

$1095

✓ Built-In Wireless Measurement
✓ Rugged, High-Performance
✓ Available with Temperature Ranges to 2482°C (4500°F)
✓ Built-In Laser Sighting Dot/Circle Switchable
✓ Emissivity Adjustable from 0.1 to 1.00 in 0.01 Steps
✓ Distance-Measuring Option, Field-Mountable or Built-In [0.9 to 9 m (3 to 30’) Range]
✓ Custom LCD Indicates Current with Min, Max, Average, or Differential Temperatures
✓ °C/°F Selectable

*Shown smaller than actual size.*
SUPERMETER®
With Patented Laser Sighting
Non-Contact Temperature Measurement
3 METERS IN 1

HHM290
$245

- Full Function
  Auto-Ranging
  Digital Multimeter
- Built-In Infrared
  Pyrometer with
  Switchable Laser
  Circle/Dot Sighting
- Dual Thermocouple
  Input (Non-
  Isolated) with
  Differential
  Temperature
  Function

PATENTED
Covered by U.S. and International
patents and pending applications.
Super OMEGA CLAD® XL Probes
Super Accurate, Super Stable, Super Value

Long-Term Drift Test @ 1149°C (2100°F) K Calibration, 3.2 mm (1/8 in) Diameter Probes Super OMEGA CLAD® XL vs. Competitors

-8.3
-5.6
-2.8
0
2.8
5.6
8.3

Elapsed Time - Weeks

For Use Up to 1335°C (2440°F)

Excellent Long Term Stability at High Temperatures

Larger Diameter Available (Consult Sales)

Big Display

- BIG, Bright 57 or 101 mm (2.25 or 4”), 4- or 6-Digit LED Display
- Programmable to Change Colors: RED, AMBER, GREEN
- Many Input Choices
- Optional Relays for Alarm and Full PID Control
- Communications Via Ethernet, RS232, RS485, and MODBUS®
- Embedded Web Server
- Free Software, Active X Controls

Patented

iLD Series

Starts at $795

Shown smaller than actual size.
Transducers Designed to Exact Navy Specifications

- High 0.25% Accuracy
- Rugged Design to Perform in Extreme Applications
- All Stainless Steel Construction
- Isolated 0 to 5 Vdc Output
- Internal Shunt Resistor for Easy System Function Verification
- High Overpressure Rating

5SE Series
Starts at $1249

LCGB Series
Starts at $460

- Stainless Steel
- High Accuracy
- Low Profile
- Miniature Size

High-Accuracy S-Beam Load Cells
Rugged for Industrial Applications

- High Accuracy
- 5-Point Calibration Included
- 0.25% Interchangeability for Multiple Load Cell Applications
- Lightweight Aluminum Construction on Ranges to 1000 lb
- Rugged Stainless Steel on Upper Ranges

LCR Series
Starts at $270

Rod ends, REC-012M, sold separately.

LCGB-5K, shown smaller than actual size.

LBC-012 Load button, sold separately.

LCR-2K, shown smaller than actual size.

LCR-1K, shown smaller than actual size.
Environmentally Sealed Stainless Steel
“S” Beam Load Cells
*High Accuracy, Economical Price*

**LCCD Series**
Starts at
$360

- Environmentally Sealed to IP67
- All Stainless Steel for Harsh Industrial Applications
- 0.25% Interchangeable for Multiple Load Cell Applications
- Calibrated in Tension
- 5-Point Calibration Provided

**Subminiature Industrial Load Cell**
*Very Low Profile*

**LCKD**
Starts at
$550

- Small in Size But Not in Performance
- Measure Load Ranges From 1 to 500 kg (2 to 1000 lb)
- Rugged All Stainless Steel Construction
- High Performance Strain Gages
- Superior Linearity and Stability
Paddlewheel Flow and Temperature Sensor/Transmitter System

**FP7002 Starts at $365**

- Measures Both Flow and Temperature
- Wide Chemical Compatibility
- 4 to 20 mA or 1 to 5 Vdc Field-Selectable Output
- NEMA 4 (IP65) Housing
- Compact Industrial Design Includes Both Paddlewheel Flow Sensor/Transmitter and Temperature Sensor/Transmitter in One Assembly
- Factory Calibrated—Easy to Install

Now includes FREE built-in temperature sensor with analog output!

**FP7002, $365, shown smaller than actual size.**
Non-Contact Infrared Temperature Sensor with Wireless Transmitter

UWIR-2-NEMA
$285

-18 to 538°C (0 to 1000°F) Measurement Range
Adjustable Emissivity from 0.10 to 1.0
Free Software Converts Your PC Into a Multi-Channel Chart Recorder or Data Logger
One Receiver Works with Up to 48 Transmitters
Low Power Operation and Sleep Mode For Long Battery Life
Transmits:
• Process Temperature
• Ambient Temperature
• Signal Strength
• Battery Status

High-Accuracy Portable, Pressure Calibrator with Built-In Pneumatic Pressure Pump

PCL-810 Series
 Starts at $2950

0.025% FS Accuracy
Calibration Certified to International Standards
Integral Pressure/Vacuum Pumps
Dual Backlit Display of Output Pressure and Electrical Input
4 to 20 mA Loop Test with Auto Step and Ramp
Dual pH/Conductivity
The Most Popular POCKET PAL® Meter

- Measures pH, pH/Conductivity, or pH/ORP
- Two Buttons Control All Operations
- Electrodes Fold Away into Handle When Not in Use
- Detachable Electrodes
- Integral Benchtop Stand

PHH-60BMS
Starts at $360

4-Channel Voltage Data Loggers
Part of the NOMAD® Family

OM-CP-QUADVOLT
Starts at $599

- 16-Bit Resolution
- User Calibration Through Software
- Memory Wrap Around
- Miniature Size
- Real Time Operation
- Programmable Engineering Units, Scale Factor and Offset Value
High Performance Wind Tunnel for Thermal Evaluation of Circuit Boards, Heat Sinks, Components and Air Velocity Sensor Calibrations

WT-2000
Complete Package
$4995

Complete WT-2000 system package includes wind tunnel, controller, fan control and PC interface cables, PC software, power cord and operator’s manual, $4995.

✔ Portable Bench-Top Design
✔ Provides Highly Accurate, Uniform and Repeatable Air Flow up to 1000 fpm
✔ Included Control Box Allows for Open Loop Full Scale Operation of Individual Fans, Groups of 2 Fans, or All 4 Fans at a Time
✔ Free PC Based Open Loop Software Allows User to Precisely Control Air Flow Rate Using the Included USB Cable to Connect to the Control Box

Very High Accuracy Digital Pressure Gauge
316 SS Body, Analog Output and Optional Wireless Transmitter

DPG409 Series
Starts at $695

✔ Large Backlit Display with 25 mm (1") Digits Readable From Over 10.7 m (35')
✔ High Accuracy and Repeatability
✔ Ranges From 10 inH₂O to 5000 psi (25 mb to 345 bar)
✔ All Stainless Steel Wetted Parts
✔ Gage and Absolute Pressure Models

Shown smaller than actual size.
Analog & Digital Output Signal Conditioners/Transmitters

iDRN/iDRX Starts at $250

- Analog or Digital Output
- Models Available for: Thermocouple, RTD, Process Voltage and Current, Strain, Frequency/Pulse, AC Voltage and Current
- Up to 1800 Vdc Isolation
- iDRN Series Provides 0 to 10 Vdc, 4 to 20 mA or 0 to 20 mA Output
- iDRX Series Provides RS485 Output (ASCII Serial Protocol and MODBUS® Serial Protocol)
- Factory Setup and Configuration Available at No Charge (for iDRN Analog Output Models)
- Free Setup and Configuration Software

EIS-W and EIS-PCB
External WHITEBOX® + Embedded Web Server

EIS-W $195

- Connects Any Serial Device with RS232, RS485, or RS422 to an Ethernet Network and the Internet
- Replace Dedicated Wiring and PCs for Serial Connections
- Digital Input/Output Lines
- Embedded Solution for Serial to Ethernet Communications
- Supports TCP, UDP, APP, Telnet, DHCP, DNS, HTTP, and MODBUS® Protocol
- Small Enough to Fit into Almost Any Size Device
Microprocessor-Based Portable Universal Circular Chart SUPERRECORDER™
5 Portable Models Available

CTXL Series
All Models
$795

5 Models Available!
1 Temperature/Humidity with Wired Probe
2 Temperature/Humidity with Remote Wireless Probe
3 Dual Process-Voltage or Current
4 Dual Thermocouple
5 pH/Temperature

PATENTED AND PATENTS PENDING

✓ Large, 200 mm (8") Scale
✓ 1, 7 or 32 Day Recording
✓ Easy to Read Dual Channel Backlit LCD Readout
✓ Convenient Front Panel Programming/Operation
✓ Monitors Min/Max/Avg Values
✓ High/Low Audible/Visual Alarms
✓ Dual High Alarm Relays, Dual Low Alarm Voltage Outputs
✓ Double Sided Charts with Magnetic Mount Hub
✓ Benchtop or Wall Mount with Built-In Chart Lights
✓ Powered by 4 D Batteries or Universal AC Adaptor
✓ Data Logging PC Software Included

Shown smaller than actual size.

Featured In
See page S-37

Commercial Off-the-Shelf (COTS) Products
Temperature-to-Wireless Transmitters for Thermocouples/RTDs

**UWTC-2-NEMA**

Starts at **$165**

- Transmit Temperature Data Wirelessly to Your Computer or the Internet
- Transmit up to 120 m (400')
- Weather Resistant NEMA 4X (IP65) Enclosure
- Software Selectable for 9 Thermocouple Calibrations or 385/392 Curve Pt100 RTDs
- Transmit Data in Real Time
- Compatible with UWTC-REC Wireless Receivers
- Included Software Converts a PC into a Multi-Channel Chart Recorder or Data Logger

**Wireless Receiver for Web-Based Monitoring**

**UWTC-REC3**

**$235**

- Connects Directly to Ethernet and Internet
- Web Server
- Works with UWTC, UWRTD, UWRH, UWIR, and UWXL Series Wireless Connectors or Probe Assemblies
- Alarms by E-mail or Text Message
- No Special Software Required
Mil-Spec and Agency Approved Sensors

Measurement and Control of Pressure, Force, Strain, and Temperature Applications for Land, Sea, Air, and Space

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