

Statement of Qualifications



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Paragon Controls Incorporated

*Engineered for accuracy, applicability,
durability and simplicity in HVAC air systems
and industrial process control loops*



COMPANY OVERVIEW

Paragon Controls Incorporated (PCI), established in 1984, designs and manufactures airflow and pressure sensing elements, transducers, room/space pressure monitoring systems, and control systems. PCI's goal is to provide cost-effective airflow and pressure measurement systems without sacrificing quality, reliability, performance, accuracy, or customer support. As a result, PCI is able to make industrial quality airflow and pressure measurement systems that once were considered to be cost-prohibitive.

PCI's engineering and manufacturing managers have more than 150 years combined experience in designing both commercial and industrial airflow and pressure measurement and control systems. PCI welcomes the opportunity to provide support to the engineering community in the selection, application, and integration of primary sensing elements and instrumentation that will meet specified performance objectives.

Competitive pricing, ease of installation, and simplified maintenance requirements makes PCI's product line an obvious choice for both new construction and retrofit projects. Local factory-trained service personnel are available for system start-up, field assistance, operator training, emergency service, and technical assistance. These services are designed to meet the customer or users needs in a prompt and effective manner.

CUSTOMER RECOGNITION

"The Orange County Sanitation District (OSCD) would like to thank you for your participation in the Airflow Testing Program. After a detailed evaluation OCSD has concluded that the Pitot Tube from Paragon Controls is the most favorable device for our use. Although all devices offered had many strengths the Pitot Tube outranked the others in the areas of performance and ease of use. The Pitot tube will be recommended for use in future projects."
 – Chris Maher, Senior Buyer,
 Orange County Sanitation District

"We have found Paragon to be exceptional both in the technology and quality of their systems. More importantly, the level of service provided before, during, and after start-up has been excellent."
 – Mervyn L. Hamer, Director, Manufacturing
 Alza Corporation

"Application knowledge, product reliability, and customer support are key factors in our evaluation, and selection of control system suppliers."
 – Rich Halliday, Mechanical Design Engineer,
 Hewlett-Packard Company

"The signal from Paragon's Pitot-tube device didn't degrade at all, and it required no cleaning. It's still performing up to spec, and we haven't had to clean it. Naturally we don't use the hot-wire anemometer anymore."
 – Richard Stien, HVAC Systems Support Manager
 Rochester Institute of Technology

CLIENT BASE

PCI has provided air flow and pressure measurement and control systems, some of which have been in operation for over 30 years, to hundreds of clients world wide in the commercial HVAC, hospital, laboratory research, pharmaceutical, biotechnology, semiconductor, waste water treatment, power generation, and various other light and heavy industrial industries including:

- ABBOT LABORATORIES- ILLINOIS
- AGILENT TECHNOLOGIES- CALIFORNIA
- ALCATEL TELECOMMUNICATION- CALIFORNIA
- ALZA PHARMACEUTICAL- CALIFORNIA
- AMERICAN AIRLINES- ILLINOIS
- AMERICAN FAMILY INSURANCE- WISCONSIN
- AMERICAN FAN COMPANY
- AMGEN PHARMACEUTICAL
- ANHEUSER BUSCH- MISSOURI
- APPLIED MATERIAL CORP.- CALIFORNIA
- ASTRA PHARMACEUTICAL- MASSACHUSETTS
- AT&T- CALIFORNIA
- BABCOCK & WILCOX NUCLEAR ENERGY INC.
- BAXTER PHARMACEUTICAL- ILLINOIS
- BECHTEL POWER CORPORATION
- BIG CREEK WATER RECLAMATION- GEORGIA
- BOEING AIRCRAFT- WASHINGTON
- BRISTOL MYERS SQUIBB- NEW JERSEY
- CAMPBELL SOUP- NEW JERSEY
- CATALYTICA CHEMICALS- CALIFORNIA
- CENTEON CORPORATION- ILLINOIS
- CISCO SYSTEMS- CALIFORNIA
- COHESION TECHNOLOGIES- CALIFORNIA
- COLUMBIA MED CENTER- GEORGIA
- CRAFT FOODS- ILLINOIS
- DEKALB GENETICS- ILLINOIS
- DES CHAMPS LABORATORIES- VIRGINIA
- EG&G DEFENSE- IDAHO
- EI DUPONT- PENNSYLVANIA
- ELI LILY PHARMACEUTICAL CORP.- INDIANA
- EVERGREEN PACKAGING POWER PLANT
- FMC CORPORATION- NEW YORK
- FOSTER WHEELR POWER EQUIPMENT SUPPLIER
- GE CAPITAL INSURANCE CORPORATION
- GE-FUJI ELECTRIC- FMC CORPORATION
- GENENTECH BIOCHEM- CALIFORNIA
- GENERAL DYNAMICS- NEW JERSEY
- GENTEX CORP.- PENNSYLVANIA
- GLATT AIR CORPORATION- NEW JERSEY
- HARRIS SEMICONDUCTOR
- HEWLETT PACKARD
- HUA YANG ELECTRIC POWER
- ICN PHARMACEUTICAL- OREGON
- INSTITUTE FOR GENOME RESEARCH- MARYLAND
- INTEL CORPORATION- ARIZONA
- INTEL CORPORATION- CALIFORNIA
- INTEL CORPORATION- UTAH
- INTEL CORPORATION- WASHINGTON
- INTERNATIONAL PAPER- CALIFORNIA
- ABBOT LABORATORIES- ILLINOIS
- IONEX CORPORATION- COLORADO
- KURTZ HASTINGS- PENNSYLVANIA
- LAWRENCE LIVERMORE NATIONAL LABORATORIES- CALIFORNIA
- LOCKHEED-MARTIN- COLORADO
- LUCENT TECHNOLOGIES
- MALLINCKRODT MEDICAL CORP.
- MAYTAG CORP.- ILLINOIS
- MERCK CORPORATION- NEW JERSEY
- METRO WASTE WATER TREATMENT- COLORADO
- MONSANTO CHEMICALS- GEORGIA
- MONSANTO CORPORATION- MISSOURI
- MOTOROLA CORPORATION- ARIZONA
- MOTOROLA CORPORATION- ILLINOIS
- MSC SUPER COMPUTER FACILITIES- TENNESSEE
- NASA- CAPE CANAVERAL, FLORIDA
- NATIONAL GYPSUM- PENNSYLVANIA
- NATIONAL SEMICONDUCTOR- CALIFORNIA
- NORFOLK NAVAL SHIPYARD- VIRGINIA
- NORTHROP CORPORATION- CALIFORNIA
- NOVA CHEMICALS- PENNSYLVANIA
- OAK RIDGE NUCLEAR ENERGY RESEARCH LAB-TENESSEE
- PACIFIC TELESIS CENTER- CALIFORNIA
- PETROLEUM TECH RESEARCH
- PFIZER PHARMACEUTICAL- ILLINOIS
- PHILLIPS SEMICONDUCTOR
- POLICE FORENSIC SCIENCE- ILLINOIS
- PRECISION AVIONICS- GEORGIA
- PURAFIL INC.- GEORGIA
- PURAFIL INC.- GEORGIA
- RALSTON PURINA- MISSOURI
- REPSOL YPF OIL AND GAS COMPANY- SPAIN
- RM CLAYTON WASTE WATER TREATMENT- GEORGIA
- SAM SUNG- KOREA
- SAVANNAH RIVER PLANT- GEORGIA
- SCHNITZER STEEL
- SHARP ELECTRONICS
- SHELL CO.- CALIFORNIA
- SOUTH RIVER WASTE WATER TREATMENT- GEORGIA
- SUN MICROSYSTEMS- CALIFORNIA
- TEXAS INSTRUMENT- TEXAS
- UC DAVIS MEDICAL CENTER- CALIFORNIA
- UNIVERSITY OF CHICAGO- ILLINOIS
- US CENTER FOR DISEASE CONTROL- GEORGIA
- US DEPARTMENT OF DEFENSE
- UTOY CREEK WASTE WATER TREATMENT- GEORGIA
- VECTOR CORPORATION- IOWA
- WRIGLEY CORPORATION- POLAND
- WYETH WYERST RESEARCH- NEW JERSEY
- XEROX CORPORATION
- IONEX CORPORATION- COLORADO

PRODUCT ADVANTGAGES

Pitot-tube technology is the most recognized industry standard for the measurement of airflow. It is the most trusted primary instrument for field testing and verification of airflow by test and balance contractors and continues to be used as the basis for many laboratory test standards to verify accuracies and calibrate various methods of airflow measurement such as thermal dispersion, vortex shedding, turbine, and other technologies.

PCI's pitot-type flow measuring elements can be made in aluminum, stainless steel, PVC, or Hastelloy or can be manufactured with a phenolic or polyurethane enamel coating to withstand corrosive environments and are capable of measuring flow in processes with temperatures well over 1,000°F (depending on construction material). Having no mechanical or heated components the pitot-type technology is generally preferred for use in explosive or other hazardous locations. Multiple-point self averaging pitot tube sensors are also commonly used for measurement of combustion flow where high temperature, high moisture, and high particulate concentrations of fly ash are present.

PCI's flow measuring elements are aerodynamically designed to resist airborne particulate from sticking to the surface; therefore, only periodic cleaning is required. The flow measuring elements are also designed for easy removal and reinsertion and can be simply wiped clean or washed with a cleaning agent suitable for use on the type of material the sensing element is constructed of without any effect on the integrity of the sensor manifold. Unlike other flow sensors, PCI's pitot-type flow measuring elements have no moving parts and don't require power to operate; therefore, field recalibration is not required. With the use of PCI's automatic purging system the flow measuring elements are virtually maintenance free. If subjected to long-term moisture combined with a heavy particulate concentration, PCI's automatic purge system with its high capacity air valves is designed to keep the sensors free and clear of any particulate buildup thus maintaining the proper operation and accuracy of flow measurement over long periods of time.

PCI flow measuring elements meet or exceed industry standards for the quantity and distribution of sensors in accordance with ASHRAE Handbook Fundamentals; ASHRAE Industrial Ventilation Manual, AMCA publication 203, and 40 CFR 60. Additionally, PCI's self averaging Pitot-type airflow sensors have been tested by AMCA, under AMCA/ANSI Standard 610 and certified under AMCA's Certified Rating Program Publication 611-06.