Quality Policy

Teledyne Analytical Instruments is dedicated to a never ending commitment to improving the quality of our products and the satisfaction of our customers through:

- Products that consistently meet or exceed expectations for performance, reliability, and durability
- Service to our customers that is prompt and courteous
- Deliveries that are on time
- Involvement and accountability of our entire management team

Our employees pledge to meet this commitment through a quality process based upon a solid foundation of ethical principles, conscientious attention to detail, proven product engineering, and manufacturing practices.

Tom Compas
General Manager

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TAI has over 15 sensing technologies to continuously monitor a wide variety of process gas and liquid parameters. This broad sensing technology-reach allows TAI to cater to a myriad of applications within the industrial, medical and automotive markets.

Our standard product range is routinely extended by developing turnkey system solutions tailored to a client's exact needs. The expertise and flexibility to design and manufacture proven, cost-effective sample preconditioning systems as well as co-bundling multiple analyzers into a single packaged solution is a core competency within TAI that serves to effectively differentiate us from our competition.

TAI's feature-rich, standard analyzer platform -- which provides the operator with user-programmable ranges, auto or fixed ranging, automatic calibration and bi-directional serial interface -- allows TAI to maximize its economies of scale where PCBs, power supplies and housings are concerned. This streamlined manufacturing capability results in quick deliveries and competitive product pricing -- not to mention the ease in field commissioning and servicing.

TAI's product diversity, global approvals and well established distribution network provides our clients with the assurance that we can continue to deliver the proper solution for their challenging application requirements.
The **Model 1220** is designed to monitor large industrial plants for flammable gases and vapors to detect and warn of leaks before explosive concentrations of materials can accumulate, providing personnel and equipment safety. In addition, the 1220 can activate a ventilation or sprinkler system or shut down process equipment. The system is composed of a central control station plus remote detectors. The microprocessor-based module is programmable by the user to customize the system’s functions, and provides one man calibration capability. It is also easy to add channels for infield upgrades. As few as one or as many as 128 detectors located over a mile away can be connected to one system.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1220</td>
<td>Multipoint Combustibles (4 to 64 points)</td>
</tr>
<tr>
<td>1223A</td>
<td>Multipoint Combustibles (1 to 3) - Panel</td>
</tr>
<tr>
<td>1223B</td>
<td>Multipoint Combustibles (1 to 3) - Wall</td>
</tr>
</tbody>
</table>

The **Model 1223A & B LEL Flammable Gas Detection System** is designed for those applications where a smaller, more focused area requires continuous safety detection -- for example, within a battery room, cylinder filling station, or gas station. The 1223 is composed of up to three independent control units. TAI can combine both the 3220 O2 and 1220 Combustibles Channel Modules into a Model 1223 – which can be provided in either a flush panel (A) or wall mount (B) configuration.

The **Model 3220 Multichannel Percent Oxygen Monitoring System** monitors oxygen levels at one or more locations. The system is designed to easily add channels for in-field upgrades, and is field-programmable to meet the needs of specific process or ambient O2 deficiency applications. Oxygen probes with maintenance free sensors can be mounted up to a mile away from the control unit. No zero gas is required. Numerous remote sensor probe configurations are available including designs suitable for hazardous areas.

Applications: Process monitoring; Life support; Area monitoring; Controlled environments; Inert gas blanketing
The **Series 2000 TCD Analyzers** are designed to continuously monitor the concentration, or purity, of a desired gas in a mixture of background gases (i.e., 70-100% H₂ in HCs). Thermal conductivity is a property of gases relating to their ability to conduct heat. The detector (TCD) used responds to changes in the component of interest by comparing the sample gas with a reference gas - which is either sealed or flowing. The TCD can be applied in various wetted parts for both corrosive and non-corrosive gas streams. Features include 110 pre-programmed combinations of gases, built-in digital linearization, and the ability to reconfigure the analyzer in the field to detect a new parameter.

**Applications:** Air separation; Turbine generators; H₂ purity in HC Recycle Streams; Annealing furnaces

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### Series 2000

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000A</td>
<td>Panel mount</td>
</tr>
<tr>
<td>2000B</td>
<td>Wall mount</td>
</tr>
<tr>
<td>2010A</td>
<td>Split - Panel mount control unit</td>
</tr>
<tr>
<td>2010B</td>
<td>Split - Wall mount control unit</td>
</tr>
<tr>
<td>2020</td>
<td>Fully explosion proof</td>
</tr>
<tr>
<td>2000XTC</td>
<td>Low cost TCD transmitter</td>
</tr>
<tr>
<td>2750</td>
<td>Portable TCD analyzer</td>
</tr>
</tbody>
</table>

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### Hydrogen Monitoring

The **Series 2200** utilizes a palladium-based, H₂ specific sensor for monitoring hydrogen on a spot-checking, ambient leak detection or process basis. The dynamic range capabilities of the Series 2200 H₂ sensor allows the operator to monitor for either trace levels – for early warning of an impending, potentially hazardous leak – to 100% when qualifying for H₂ purity.

**Applications:** Hydrogen cooled generator leak detection; Nuclear waste monitoring; Hydrogen degassing monitoring in battery storage facilities; Power station off-gas monitoring; Process hydrogen monitoring of recycle gas streams; Hydrogen leak detection of fuel cell power generation devices; Monitoring hydrogen generated via electrolysis; Hydrogen Reformers and HYCO plants

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<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>2220</td>
<td>Hydrogen area monitor / Leak detector</td>
</tr>
<tr>
<td>2230</td>
<td>Explosion proof hydrogen analyzer</td>
</tr>
<tr>
<td>2240</td>
<td>Portable hydrogen leak detector</td>
</tr>
</tbody>
</table>
Series 3000M Paramagnetic Oxygen Analyzers offer superior performance for percent oxygen analysis due to the advanced, maintenance free, paramagnetic O2 sensor design. The 3000M provides the operator with long-life, fast response oxygen sensing capability in both inert and corrosive CO2 gas streams. Properly maintained paramagnetic sensors last for years with little or no attention making them ideal for critical measurements.

Applications: Challenging petrochemical, steel and cement applications; O2 purity analysis and emissions monitoring

**Paramagnetic**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
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<tbody>
<tr>
<td>3000MA</td>
<td>Panel mount</td>
</tr>
<tr>
<td>3000MB</td>
<td>Wall mount</td>
</tr>
<tr>
<td>3010MA</td>
<td>Oxygen purity panel</td>
</tr>
<tr>
<td>3020M</td>
<td>Fully explosion proof</td>
</tr>
</tbody>
</table>

**Fuel Cell - Percent & Trace**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
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<tbody>
<tr>
<td>3000TA-XL</td>
<td>Panel mount (0-1 ppm O2)</td>
</tr>
<tr>
<td>3000TA-XL</td>
<td>Panel mount (0-5 ppm O2) - ZrO2 type</td>
</tr>
<tr>
<td>3000TA</td>
<td>Panel mount (0-10 ppm and above)</td>
</tr>
<tr>
<td>3000TB</td>
<td>Wall mount</td>
</tr>
<tr>
<td>3010TA</td>
<td>Split - Panel mount control unit</td>
</tr>
<tr>
<td>3010TB</td>
<td>Split - Wall mount control unit</td>
</tr>
<tr>
<td>3010TAC</td>
<td>Split - l/S Cenelec, Panel mount control unit</td>
</tr>
<tr>
<td>3010TBC</td>
<td>Split - l/S Cenelec, Wall mount control unit</td>
</tr>
<tr>
<td>3020T</td>
<td>Fully explosion proof</td>
</tr>
</tbody>
</table>

Series 3000T & 3000P Trace and Percent Oxygen Analyzers utilize Teledyne’s advanced Micro-fuel Cell (MFC) electrochemical oxygen sensors. Teledyne’s MFCs provide users with an easy-to-use, disposable, no maintenance O2 sensor design that can be freely applied in inert gas streams as well as in pure or gas mixtures containing H2, hydrocarbons and CO2 for accurate O2 detection from 0-1 ppm up to 0-100%.

Applications: Air separation; Petrochemical; Steel and heat treating; Glove boxes; N2 blanketing
Cost-Effective & Portable Oxygen

Low Cost, Highly Flexible Oxygen Analyzer: The 3190 Trace and 3290 Percent O2 Analyzer platforms offer ease-of-use and the essential analyzer requirements in a compact design. The flexibility of this platform allows TAI to mate the 3190 or 3290 controllers with fuel cell, ZrO2 or paramagnetic sensing technologies. The units can be purchased either as stand-alone units or on a high volume OEM, private label basis. Various configurations are available with either AC or DC powered options.

If interested in a value-added configuration -- with cal gas selector valve, flow control, and 19” rack or wall mounting -- TAI offers the Series 3300 turn-key solution.

Applications: Nitrogen generators; Nitrogen blanketing / pneumatic conveyors (with sample system and enclosure)

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
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<tbody>
<tr>
<td>3190Z</td>
<td>Panel mount - PPM / Zirconium oxide</td>
</tr>
<tr>
<td>3290Z</td>
<td>Panel mount - percent / Zirconium oxide</td>
</tr>
<tr>
<td>3190P</td>
<td>Portable - PPM</td>
</tr>
<tr>
<td>3300MA / TA / PA / ZA</td>
<td>Rack mount Paramagnetic / Trace / Percent / Zirconium Oxide</td>
</tr>
<tr>
<td>3350</td>
<td>3290 in a NEMA-4 wall mount enclosure</td>
</tr>
</tbody>
</table>

Portable Oxygen Analysis: The 3110 and 311XL series provide high accuracy and fast response, and are FM approved intrinsically safe (I, 1, B C D). The 3110 offers two user selectable ranges between 0-10 ppm and 0-25%. The 311XL and 311TCXL (BASEEFA) provide analysis in decade steps ranging from 0-2 to 0-10,000 ppm full scale.

The 320P portable flue gas analyzer series is ideal for spot checking the oxygen content of flue gas from a boiler, firebox, furnace, or other combustion process. Three ranges are provided and calibration is accomplished with ambient air.

Applications: Cryogenic gas delivery certification; Spot checking storage tanks; Welding; Diving; Weather balloons; Combustion efficiency monitoring

Oxygen Transmitter: The Insta Trans is a two-wire, loop-powered 4-20 mA oxygen transmitter packaged within a weather proof NEMA 4 housing. Insta Trans can instantly transform from ppm to percent analysis by changing the sensor and resetting the range scale on the function keypad. The operator can ensure changes have been made via the range indication continuously shown on the built-in meter. No other electrical or resistor changes are required. The Insta Trans has six user selectable ranges from 0-10 ppm to 0-25%. This unit is suitable for use in non-hazardous and Division 2 environments in its standard configuration or for Division 1 / Zone 0 areas with optional intrinsic safety barriers.

Applications: Petrochemical; Natural gas transmission; Any O2 application where 24V loop power is desired
Flame Ionization Detection (FID)

The **Series 4000** FID platform is highly flexible. In its most basic configuration - the Model 4020 - Teledyne provides a continuous analysis of the total hydrocarbon (THC) impurities found in bulk gases (N2, H2, O2, He, Ar, CO2) manufactured by the air separation industry.

We can also apply this same configuration, in tandem with a sample stripper system, to detect the THC content found in cooling tower water / heat exchanger condensate within a power plant.

By placing a packed column upstream of the FID, in conjunction with the added valving and temperature control capabilities, TAI is also capable of speciating various compounds (i.e., methane, benzene, acetaldehyde, etc.) within a gas stream. TAI has developed specific analyzers with these capabilities.

**4020 THC Analyzer**
Applications:
- Monitoring the total hydrocarbon (THC) impurities found in bulk gases which are used in the manufacturing of microcircuits
- Gas purity certification
- Detecting THC in CO2 used within the food & beverage industry

**4030 Heated THC Analyzer**
Applications:
- Monitoring THCs for emissions compliance purposes
- Detecting THCs found in a high temperature wet-process gas to confirm the efficiency of incinerators, scrubbers, carbon adsorbers and catalytic oxidation units to remove THCs prior to release to the atmosphere

**4040 Methane / Non-Methane Analyzer**
Applications:
- The ambient detection and speciation of methane and non-methane THCs found in the atmosphere for environmental control and reporting purposes
- Gas certification applications within the air separation industry

**4060 Benzene (or BTX) Analyzer**
Applications:
- Monitoring the benzene (or BTX) content found in purified CO2 used within the food & beverage industry
- Detecting the benzene (or BTX) content found within the ambient air (i.e., fence-line monitoring) for environmental compliance purposes

**4080 Total Hydrocarbon in Water analysis system**

**Process Gas Chromatographs**

**4080 THC in Water Analyzer**
Applications:
- Detecting the THC content found in cooling tower water for environmental compliance purposes. The FID approach can detect both aliphatic and aromatic hydrocarbon content.
Moisture / O2 Analysis Systems

The Series 8800 Trace Moisture Analyzers detect moisture from -100° C to ambient dewpoint levels of +20° C on either a continuous or spot checking basis. The user can select the moisture analysis readout to be displayed as Deg C, Deg F, ppm - and for natural gas applications – in lbs of H2O/million cft or g/m3. The moisture sensor employs unique Hyper Thin Film (HTF)™ technology which offers structural improvements in Al2O3 sensor design. These structural changes provide increased sensitivity, greater stability, and a quicker response time. The 8800 Series can be applied to detect moisture on either gas or liquid phase applications.

Applications: Air separation; Glove boxes; Heat treating furnaces; Dryers; Polyethylene plants

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
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<tbody>
<tr>
<td>8800A</td>
<td>Flush mount DIN enclosure with connections made via a pluggable screw terminal block</td>
</tr>
<tr>
<td>8800B</td>
<td>Wall mount N4X (IP65) enclosure with connections made via 3 bottom watertight fittings</td>
</tr>
<tr>
<td>8800P</td>
<td>Portable battery operated design available in a Standard Version, I/O Version, and I/S Version (I/S version suitable for hazardous areas)</td>
</tr>
<tr>
<td>8800T</td>
<td>Low-cost, loop powered 4-20 mA transmitter design with built-in LCD display</td>
</tr>
<tr>
<td>8800NG</td>
<td>Moisture system for natural gas</td>
</tr>
</tbody>
</table>

The 8800NG is specifically designed to detect H2Ov found in natural gas. TAI’s unique system solution includes on-board calibration capability to periodically ensure that the moisture sensor is accurately responding to a known calibration standard. This affirms proper analysis of the moisture content found in the natural gas stream.

OT-3 Oxygen Analysis System

The OT-3 Oxygen Analysis System is a compact, fully integrated solution for the continuous analysis of ppm levels of O2 found in natural gas. The OT-3 O2 Transmitter comes with (2) x ppm O2 analysis ranges and is suitable for use in Class I, Division 2, Group B, C and D hazardous areas with a non-incendive power source. The OT-3 with a regulator, coalescing filter, flow control and calibration valving, all within a NEMA-4 weatherproof enclosure. TAI can also provide AC powered systems and an optional on-board heater for installations in cold environments (OT-3H).

Applications: O2 in natural gas gathered from low pressure coal-bed methane (CBM) wells

The Oxygen Snitch is a compact, low cost alternative to the standard oxygen analyzer. In many natural gas processes, the user simply needs to be advised if the oxygen content has moved beyond specific parameters. Complex sample systems and large instruments with electronics and LCD displays are not always required. Teledyne’s solution is a softball-sized devise that provides the customer with a desired output signal. The unit consists of a sensor block which measures oxygen using Teledyne’s own sensor technology. It then provides the customer with a voltage, current, or alarm contact, signaling an oxygen reading or alarm condition.

OT-3 & OT-3H O2 System for Natural Gas

Natural Gas
**5000 Series Near Infrared (NIR) Photometer**

The Series 5000 NIR Photometer utilizes a chopper stabilized single sample cell, dual wavelength design to continuously monitor water and organic compounds (in the liquid phase) that have distinct absorbance peaks within the NIR region of the light spectrum. In addition to providing inherent stability, this design provides automatic compensation for the background components with an absorbance overlapping that of the component of interest. The Series 5000 is set apart from other commercially available NIR analyzers by its unique sample cell pre-heater design that ensures stable performance over a wide temperature range. The Series 5000 is available in either general purpose or hazardous configurations.

Applications: PPM or percent level detection of H2O in organics / solvents in petrochemical plants (EDC/VCM, HOAC, MCB, etc.)

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**Near Infrared Photometers**

**Series 5000**

| 5000B | Wall mount NIR - folded optics |
| 5020 | Fully explosion proof NIR |
| 6000B | Wall mount UV |
| 6020 | Fully explosion proof UV |
| 6200 | Total sulphides analyzer |
| 6400 | Fluorescent SO2 analyzer |
| 6600 | Oil in Water analyzer system |
| 6650 | Oil in Water analyzer, fluorescence probe |

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**Series 6000**

**UV, VIS & Fluorescence Photometers**

**6200A UV Fluorescence Total Sulphides Analyzer**

**6000 Ultraviolet Photometer Series**

The 6000 Series of microprocessor controlled ultraviolet photometers provides continuous on-line detection of selected gases or liquids that absorb in the UV / VIS region. The field proven single source, dual wavelength optical design allows for compensation of turbidity, source lamp aging or window coatings, thereby producing a high degree of stability. General purpose, non-hazardous configurations as well as totally explosion proof versions (6020) for use in Class I, Division 1, Groups B, C & D are available. The 6000 Series is normally applied to detect H2S, SO2, CL2 as well as Phenol-in-Water and the color of refinery oils on a Saybolt, ASTM or APHA basis.

Applications best suited for: Petrochemical; Refining; Emissions; Pulp & Paper; Food & Beverage; Electrostatic precipitators

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Note: Virtually all photometers are made to order and typically have value added elements incorporated into the design.
Oil in Water & TOC Analyzers

6600 Oil in Water Analysis System
The 6600 utilizes the ultraviolet absorption principle to detect and continuously measure oil concentration in water with a reproducibility that exceeds standard laboratory techniques.

- Typical ranges of 0-5 to 0-200 ppm Oil (higher ranges available – contact factory)
- Compact, folded optic packaging with approved purged designs for use in hazardous areas
- Automatic self-cleaning sample cell design suitable for high sample pressure and temperature applications
- Field-proven, value-added sample system designs available; configuration is based upon intended application use

Applications: Oil in boiler return condensate; Refinery run-off, Waste water treatment plant; Oil in Produced Water analysis on an offshore oil rig; Ship ballast discharge for environmental compliance; Cooling tower water / heat exchangers

6600 Oil-in-Water Analysis System

6700 Oil in Water Analysis System

The Series 6700 covers a complete range of Total Organic Carbon (TOC) Analyzers capable of addressing a wide variety of industrial applications for process and environmental compliance purposes. Depending on the application, TAI can provide an recommendation as to which technique would be best suited to continuously detect TOC within your process.

UV / Heated Persulfate | Combustion | Ozone Promoted | Ultrapure

Each configuration is available with an advanced Microsoft Windows-based computer with touch screen control. The robust and reliable Infrared CO2 analyzer is the heart of each design. It provides specific, interference-free CO2 detection, has no moving parts, and is extremely easy to access and service, as required. Depending on your specific needs, TAI is capable of providing a complete turn-key system solution suitable for use in hazardous, outdoor environments.

Applications: Boiler feedwater; Cooling water; Wastewater; River water; Pharmaceuticals; Process control

Teledyne Analytical Instruments
Teledyne’s 7300 series of Non-Dispersive Infrared (NDIR) gas analyzers features fast response, high accuracy, sensitivity, stability, and excellent linearity. The analyzers offer cost competitive measurement solutions due in part to the uniquely designed and patented IR detector. The heart of these microprocessor-based units is a temperature compensated, hermetically sealed, steady state thermopile detector integrated into an IR photometric bench. This design eliminates the traditional motor driven chopper wheel, signal conditioning circuitry, and complex optics resulting in a compact and rugged analyzer.

Applications: Chemical and petrochemical processes; Combustion and flue gas processes; Pulp & Paper; Vapor recovery systems; Enhanced oil recovery; Food; Agriculture; Medical; Metals; Ceramics and heat treating atmospheres; Landfill gas power stations; Emissions testing (part of the mobile stations); Carbon dioxide scrubber efficiency; CO / CO2 monitoring in oxyhydrochlorination process in EDC manufacturing

The GFC-7000 Gas Filter Correlation Analyzer detects CO2 on an ultra-low range from 0-100 ppb to 0-100 ppm. The sensitivity is achieved via a multiple optical pass sample (white) cell. Advanced electronics provide extensive self-diagnostic capabilities, and built-in data acquisition provides the means to log multiple calibration and operational parameters. The modular construction makes service, when required, a simple operation.

Applications: Air separation; Medical grade air and O2
The LGA-3500 is an in-situ, cross stack Tunable Laser Diode Array Spectrometer (TLDAS) capable of detecting a number of compounds, such as O2, CO, CO2, within a combustion process. The LGA-3500 provides an instantaneous response to process changes, has no moving parts, no cross interference from other gases, and eliminates the need for a costly extractive sample preconditioning system. The rugged design and air purge applied on the optical windows of the laser transmitter and receiver units makes the LGA-3500 easy to maintain and leads to a low cost of ownership. Configurations suitable for hazardous areas are also available.

Applications: Combustion optimization; Challenging process applications within Steel and Petrochemical plants

The 9060 Zirconium Oxide Flue Gas Oxygen Analyzer provides reliable in-situ oxygen monitoring by combining our proven zirconium oxide sensor technology with a microprocessor based controller in a compact NEMA-4 housing.

Applications: Boiler / combustion efficiency; Stack gas / emissions monitoring; Process heater furnaces (ethylene plants)

The Series 9110 utilizes the chemiluminescence method for continuous detection of NO / NO2 / NOx for either the 0-50 ppb to 0-20 ppm (Model 9110A) or 0-5 ppm to 0-5000 ppm (Model 9110AH) range.

Applications: Continuous emissions monitoring (CEMs); Selective catalytic reduction of NOx; Air separation (medical grade gases)

The CEA-9001 and PEM-9002 digital flue gas analyzers, suited for inspecting and servicing small to industrial sized heater installations, are used for safety-relevant technical inspections of CO emission concentrations in gas combustion plants.
Photo-X Series: Fiber Optic Based UV/VIS & NIR Transmitters

TAI offers an application specific family of fiber optic-based photometric transmitters that provide unique, in-situ solutions to challenging process problems.

By offering in-situ Front Surface Probes in SS and Hastelloy-C -- capable of contending with high sample temperatures and pressures -- we can determine the fluorescence or spectral reflectance from the surface of a liquid, solid, paste or slurry. The fiber optic probe is intrinsically safe and we can package the Photo-X Transmitter in a purged enclosure for installation in hazardous areas.

The Photo-X product offering allows us to extend our application reach within the petrochemical, pharmaceutical and food & beverage markets.

UV Applications: Oil-in-Water analysis; Clean in Place (CIP) validation; Protein purification; Viable cell growth (NADH); Rouging in Water / Water for Injection (WFI)

NIR Applications: Optical density of fermentation; Water in Solvents; Scale formation

<table>
<thead>
<tr>
<th>LXT-220</th>
<th>AC powered, feature-rich controller, NEMA-4X</th>
</tr>
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<tbody>
<tr>
<td>LXT-230</td>
<td>DC powered transmitter, NEMA-4X</td>
</tr>
<tr>
<td>LXT-280</td>
<td>DC powered transmitter, CSA / FM approved</td>
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</tbody>
</table>
Teledyne provides turn-key solutions for a wide variety of complex, custom process monitoring applications. For over 50 years we have assisted customers with special monitoring needs. Drawing on our process expertise, our team of seasoned experts creates systems that offer reliability and performance our customers can rely on.

The development of a custom system involves evaluating chemical samples, process conditions, environmental requirements, and hazardous classifications. In addition, systems must often meet international standards that require special knowledge. This work is done at no charge to the customer.

Teledyne also participates in joint cooperative efforts with end users, manufacturers and agencies to provide solutions to problems that no individual company can solve. Many Teledyne developments are shared with the scientific community to propel the analytical industry forward and better serve the scientific community. Whatever the application, Teledyne will endeavor to create a custom system specific to the application.

The CDQC System can incorporate any combination of the following analyzers to ensure the CO2 product used in food and beverage processes meets industry standards:

- Trace levels of Total Sulphides as SO2 via UV Fluorescence (0-50 ppb to 0-20 ppm)
- Trace levels of Total Hydrocarbons via FID (0-1 ppm to 0-1000 ppm)
- Trace levels of Moisture via Al2O3 sensor (–100°C to + 20°C)
- Trace levels of Oxygen via Micro-fuel Cell sensor (0-10 ppm to 0-1%)
- CO2 Purity Analysis via NDIR (98-100%)

The analyzers can be mounted in either a NEMA-12 or NEMA-4/4X system enclosure with dual door access to facilitate analyzer / sample system adjustments. The system can be designed for either stationary installation or with casters allowing the system to be easily moved to various points in the plant. If required, the system can be winterized allowing the system to be mounted in an outdoor environment.

Medical gas racks per US and European Pharmacopiea regulations

Carbon Dioxide Quality Control (CDQC) System for detecting total sulphides, total hydrocarbons, and trace moisture in pure CO2 for the beverage industry
INDUSTRIES SERVED

- Petroleum
- Chemical
- Power generation
- Semiconductor
- Steel
- Cement
- Air liquefaction / separation
- Pharmaceutical
- Pulp & Paper
- Oil and gas
- Fertilizers and pesticides
- Coal products
- Stone, clay, glass and ceramics
- Metals and metal processing
- Waste treatment
- Transportation
- Instrumentation and control
- Emissions control
- Government
- Rubber and plastic
- Food and beverage
- Heater and boiler servicing
- Heat treating
- Gas and water utilities
- Mining
- Aerospace
- Electronics
- Medical
- Automotive
- Military
- Nuclear
- Diving

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CERTIFICATIONS EARNED

- ISO-9001
- ISO-13485
- CENELEC
- ATEX
- BASEEFA
- FM
- GOST
- UL
- CSA

Certifications for specific instruments available upon request. Specifications for systems are also available by contacting TAI or a local representative.

TAI Representative: