

Your Global Automation Partner

TURCK

The Full Range for Oil and Gas





Turck is a global leader in automation technology. Over 4,000 employees in 28 countries strive to deliver the best sensor, connectivity, and fieldbus technology products on the market. To do this more efficiently, we have strategically located production facilities across the globe, including sites in the United States, Germany, Switzerland, Mexico, and China. This allows us to adapt to specific market conditions, as well as bring product to the market faster.

Turck strives to provide our customers with not only the best products on the market, but also the best service and support. Our highly trained engineering staff is available to walk you through your system requirements and help find solutions to difficult application problems. Unlike other companies, when you call Turck, you will always be able to speak directly with an engineer in a matter of minutes! Combine this with a network of 2,000 experts across the United States, and you literally have the finest assembly of automation professionals at your doorstep.



Oil and Gas

Turck has a long-standing industry reputation as a premier manufacturer of solutions for oil and gas applications, because we understand -- just like you do -- that when the going gets tough you need hard working and reliable automation solutions. Whether your application is in the upstream, midstream, or downstream of production, Turck offers a full suite of rugged, innovative solutions to get your application up and running.

We have a strong record of success with solutions designed for oil and gas applications, including:

- Quick Disconnect Instrumentation Connectivity
 - Compressor Skids
 - LACT Units
 - Tank Batteries
 - Separators
 - Wellheads
- High Density Intrinsically Safe I/O for Offshore Applications with Marine Approvals
- Div 2/Zone Rated Remote I/O for Well Pad Monitoring and Control
- Valve Position Sensing
- Mobile Stimulation Equipment Connectivity
- Intrinsically Safe Barriers and Hazardous Area Sensing for Oil & Gas Equipment Builders
- RFID Asset and Pipe Tracking

Oil and gas Applications

Oil and gas applications require solutions far more rugged and robust than a typical automation application.

Trust your demanding applications with a company that has met and exceeded the most extreme application challenges for years. We have solutions designed and built specifically for the harsh settings that oil and gas applications face -- because when the going gets tough, Turck works.

Connectivity

Turck is a worldwide automation solution provider and offers customers an unmatched breadth of industrial connectors, cables, and connectivity solutions. From rugged and overmolded Mil-Spec connectors to our Extremelife-60 cable offering, which combines an unparalleled amount of approvals for extreme temperatures as low as -60 °C, Turck has connectivity solutions for even the most difficult applications.

Sensors

Turck has a rich history as one of the most prominent sensor manufacturers in the world, and it does not come undeserved. Our sensors provide customers with rugged, accurate, reliable, and often hazardous area approved sensing solutions so you can minimize downtime and focus on getting your job done. Why trust your application to a second-rate sensor when you can have a ruggedized sensor that sets the industry standard?

Fieldbus Technology

Turck's fieldbus technology products are used to link devices such as sensors and actuators to an automated controller. We offer rugged engineered I/O solutions that can be placed on-machine or in-panel to match the needs of the most aggressive applications. With solutions ranging from our standard I/O products to a wide selection of products with hazardous area approvals, Turck is a trusted supplier of Ethernet and safety protocols for customers around the globe.

Intrinsic Safety

Turck's series of Isolating Intrinsically Safe Barriers are designed to be a simple and safe way to solve the problems associated with the installation of equipment that is used in potentially explosive atmospheres. Turck's IM series utilizes the intrinsically safe concept that is universally accepted, easy to apply, and the safest way to install electronic measuring, monitoring, and control equipment in potentially explosive atmospheres. The IM series uses state of the art circuitry and the latest technology to produce an unsurpassed product that provides the best explosion protection interfaces on the market.

Turck Cabinet Solutions

Turck provides customers with a complete packaged solution by integrating our products with products from other manufacturers. Turck has a fully certified panel shop, allowing our team to design and incorporate Turck interface modules, barriers, and distributed I/O into an engineered enclosure for your application needs. Turck has the ability to build packaged solutions to meet many certifications.

Custom OEM Solutions

When you have a need or application that cannot be met by standard products, Turck has a team of experts who work with customers everyday to create custom product solutions that are designed to meet every specific requirement your application demands.

Upstream

Shock, vibration, and extreme temperatures are just the beginning of what your applications face on a daily basis. Turck rises to the challenge, offering solutions that thrive when put to the test in the most extreme environments. From rugged, reliable sensors you can depend on to unrivaled process wiring solutions developed specifically for extreme temperatures, Turck works harder than anyone to keep your systems constantly running.



Load Cell Cable
Control Feedback



Inclinometer
Walking Beam Position



Proximity Sensor
Speed Feedback



Connectivity Consolidation

- Rugged, sealed junction boxes
- Products for M12, M8, 7/8", and 1/2" available
- AC or DC options, PNP LED, NPN LED, and non-LED offerings
- Multiple housing styles and materials available

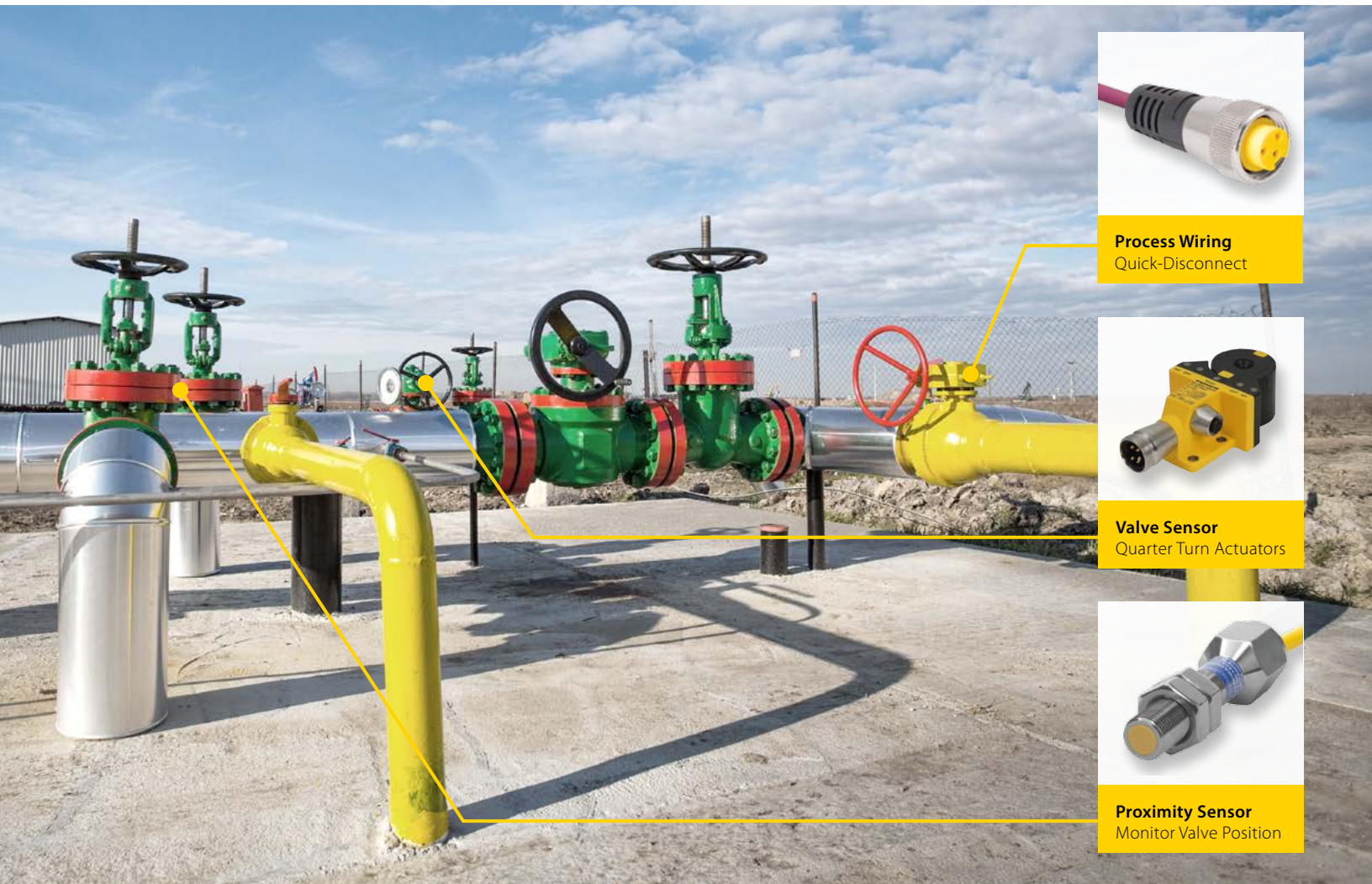


Rugged HL Connectivity

- Approved solutions by FM for use in Class I Division 1 areas
- Fully encapsulated housings and welded aluminum armored cable
- Quick-disconnect reduces installation time
- Eliminates need for conduits and poured seals

Midstream

Midstream applications require reliable and rugged automation solutions to keep your production up and running. Turck has solutions to answer the demanding needs of midstream applications where your goods are in constant motion. Solutions that can withstand shock and vibration, provide environmental protection, and allow for reliable network and I/O communication. Turck meets the needs of rugged applications where downtime is simply not an option.



Process Wiring
Quick-Disconnect



Valve Sensor
Quarter Turn Actuators

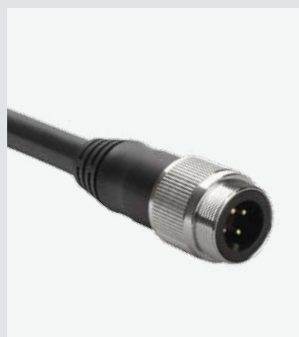


Proximity Sensor
Monitor Valve Position



Minifast HD with ATEX and IECEx Approvals

- ATEX and IECEx approved connector in a complete cable assembled package
- Full metal body and potting with the ability to band with many different cable types



Powerfast Connectivity Solutions

- Replaces time consuming hard-wiring methods
- Robust and reliable modular wiring solution
- Available in A-size (7/8"), D-size (1-3/8"), M16, M23, and M40
- Delivers flexible design capabilities, quick modifications, and expandable options

Downstream

As if the typical oil and gas application isn't difficult enough, downstream applications involve many of the same requirements, but must be done safely while producing your final product. Turck has solutions developed specifically to take on your toughest oil and gas processing applications, including ruggedized sensing and distributed I/O, Excom systems, and products that comply with industry standards.



Intrinsic Safety
Explosion Protection



Temperature Sensor
Quick-Disconnect



Distributed I/O
Class I, Div. 2



Mil-Spec Connectivity

- Environmentally sealed, fully assembled, overmolded solution
- Threaded, bayonet, and reverse bayonet options available
- Tested to IEC 60529 IP67 and IP68, NEMA 6P



FOUNDATION Fieldbus Power Conditioner

- Continuously monitors physical layer components
- Provides instantaneous feedback regarding status of communication link
- Minimizes data in asset management or control systems

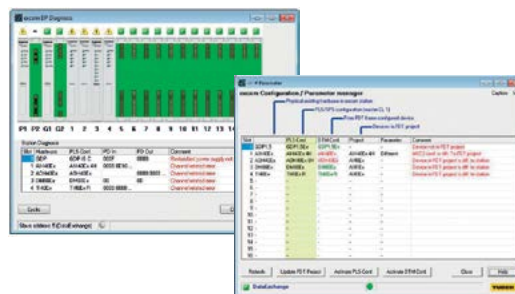
Rugged Solutions

At Turck, we understand that not every oil and gas equipment application is the same. That is why we dedicate ourselves to finding the optimal engineered solution for every application, not just the standard ones.

Developing solutions are part of what makes Turck fast, flexible and easy to do business with.

Whether you need a single product or a full suite of innovative automation solutions, our experience allows us to tap into an extensive array of engineering knowledge and solve problems that others cannot. Turck's vertically integrated design process provides a one stop shop for optimized solutions, from product development and cable engineering to tool design and fabrication. Turck's cabinet solutions are fully certified, allowing us to design and incorporate interface modules, barriers, and hazardous area distributed I/O products into fully certified intrinsically safe control panels with many approvals.

That's the Turck Advantage!



Customer-Specific System Solutions

Planning, manufacturing, testing, and commissioning of customized system solutions - from products, production, and programming of cabinets up to commissioning.



Excom Intrinsic Safety

- High density I/O system that provides large number of points in small footprint
- 9 or 18 slot racks utilize PROFIBUS gateway that eliminates point-to-point wiring to DCS
- Increases available panel space and decreases wiring times



Cabinet Condition Monitoring

- Panel Open
- Humidity
- Temperature
- Gasket Integrity

TURCK



28 subsidiaries and over
60 representations worldwide!

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