



OIL & GAS SOLUTIONS

UPSTREAM, MIDSTREAM & DOWNSTREAM

United Electric Controls' pressure & temperature switches, sensors, and transmitters are designed to protect your valuable oil & gas assets, withstanding the toughest environmental conditions and industry challenges. From offshore platforms and subsea wellheads to onshore drilling rigs, refineries and pipelines, UE has developed highly dependable and accurate instrumentation compliant to many worldwide approvals and standards. Supported by a global distribution network, UE can deliver products where and when you need them, helping to keep your process online and your workers and the environment safe!



UNITED ELECTRIC
CONTROLS

LEADERS IN SAFETY, ALARM & SHUTDOWN



ONSHORE

Whether you are involved in a conventional or unconventional oil & gas play, UE understands the importance of reliable pressure and temperature sensing devices for well automation and optimization. Rugged 316 stainless steel pressure transmitters monitor tubing and casing pressures while stainless steel RTD's with a Teflon® coating protecting against moisture, monitor gas line temperatures. UE's unique Sensor Box™ allows service personnel to build an emergency thermocouple or RTD in minutes minimizing process downtime!

- Monitoring tubing & casing pressures
- BOP accumulator systems
- Input to RTU's & SCADA systems
- CO₂ injection skids
- Top drive systems

TX200



SENSOR BOX™



OFFSHORE

The offshore environment brings unique challenges, whether the Gulf of Mexico or the North Sea – which is why UE has designed compact, all welded, hermetically sealed 316 stainless steel pressure switches and transmitters specific to panel mounting. Resisting salt spray and humidity, these compact cylindrical designs maximize your panel space while monitoring and controlling critical offshore functions like high pressure wellhead monitoring and controlling subsea valves.

- Emergency shutdown & safety monitoring
- Instrument panels
- Sub-sea valve monitoring
- Line pressure & hydraulic monitoring
- Fire suppression systems

TX200H



12 SERIES





NATURAL GAS

Production, refining, or transport of natural gas requires reliable field instrumentation for both safety and for maximum capitalization of your process. UE's accurate electronic pressure switch protects your equipment with local switching, reduces field maintenance through self-diagnostics, and provides remote monitoring through a 4-20 mA output. A dual containment pressure switch prevents flammable or combustible process fluids or gases from entering the electrical system.

- Pipeline compressor stations
- Input to RTU's & SCADA systems
- Gas flow monitoring
- Flare gas recovery
- Metering runs

ONE SERIES



12 SERIES



LIQUID PIPELINE

UE electronic and electro-mechanical pressure and temperature switches and sensors are protecting pumps and compressors, as well as providing flow line monitoring on thousands of miles of pipeline. Tough, field-proven designs supervise unmanned pipelines and stations to prove flow, detect leaks and monitor lubrication oil. Electronic switches with 4-20 mA output also retransmit the process variable to control station personnel. Local display capabilities provide programmable field adjustments, switch status and fault detection.

- Pump monitoring & protection
- Oil/Gas separator systems
- Line heater control
- Flow line manifold monitoring
- Input to RTU's & SCADA systems

ONE SERIES



120 SERIES



TX200H

HART Smart Pressure Transmitter

- 2-wire, loop-powered device with 4-20 mA & HART 7 outputs
- 316 stainless steel, hermetically sealed enclosure, certified type 4X/IP66
- 10:1 range turndown reduces inventory
- Optimum temperature compensation limits thermal effect on sensor output
- Utilizes existing wiring for easy upgrade of instrumentation
- Ranges to 25,000 psi (1724 bar)



HART
COMMUNICATION PROTOCOL

12 SERIES

Pressure, Differential Pressure & Temperature Switches

- Dual seal switch certified to ANSI 12.27.01 standards
- Corrosion-resistant 316 stainless steel construction
- Snap-acting Belleville spring for vibration resistance and set point stability
- Convenient field setting and adjustment
- 316 stainless steel wetted parts are NACE MR-0175 compliant
- Ranges to 12,500 psi (860 bar)

**DUAL SEAL
CERTIFIED**



ONE SERIES

Electronic Pressure & Temperature Switches

- Fully adjustable set point and deadband with 0.1% repeatability
- 5X faster than a transmitter and 50% less installed cost
- Digital display includes process, status and self-diagnostics
- 2-wire and loop-powered 4-20 mA models available
- Measures gage pressure, differential pressure or temperature
- Provides the functions of a switch, gauge and transmitter
- Ranges up to 6,000 psi (410 bar)



120 SERIES

Pressure, Differential Pressure & Temperature Switches

- Single SPDT or DPDT or dual SPDT outputs
- Choice of internal or external adjustment
- Wide selection of sensor materials and ranges
- Wide adjustable deadband models
- Easy to wire via dual electrical conduit openings and terminal block
- Ranges to 6000 psi (410 bar)



AST TEMPERATURE SENSORS

Industrial Temperature Sensor Assemblies

- RTD's with flexible armor, specifically designed for pipelines
- Rugged, moisture and lightning resistant construction
- The Sensor Box™: build the thermocouple or RTD that you urgently need!
- Self-contained - everything you need to build the right product for your field emergencies



WORLDWIDE APPROVALS



(EMC, LVD, PED)



CP06125000