

# TRANSducers *direct*<sup>®</sup>



**Pressure Transducers • Pressure Switches**  
**CirrusSense™ • Wireless Transducer & Router**



## CirrusSense™ Wireless Router/Gateway

CirrusSense™ Wireless Router/Gateway accepts the Bluetooth input from several TDWLB pressure transducers and provides the information gateway to the internet.

- Information from the sensors is pushed up to the Transducers Direct Cloud where the data is available in a proprietary password protected portal
- Data can be viewed 24/7 anywhere there is an internet connection available
- Data viewed is Real-Time per the specifications of the TDWLB sensors
- Information from the TDWLB sensors is data logged and time stamped
- Data can be downloaded in a spreadsheet format
- The CirrusSense™ Wireless Router/Gateway is packaged in a NEMA 4 enclosure suitable for outdoor installation and is easy to install with its integrated mounting holes
- Receive text/email alerts when alarms are triggered



### Bluetooth Markets

**HVAC/R** : Rooftop systems, HVAC equipment/servicing    **Agricultural Equipment** : Harvesting tractors, farm/crop processing machines

**Irrigation** : Crop monitoring, spraying equipment, pivots    **Medical Gases, Gas Monitoring** : Compressed gas cylinders

**Pump Stations & Drilling Rigs** : Booster pump, water stations, oil rigs    **Hydraulic Machinery** : Hydraulic presses, stamping equipment

**Fire Suppression** : Sprinkler systems, water systems





# Pressure Transducers



## TD1000/2000

Digital measurement technology. Low power design, stability, and accuracy make it ideal for numerous pressure applications.

- Digital design and measurements
- High noise immunity
- All stainless steel wetted parts
- Redundant sensing elements
- 2x overpressure standard
- Optional 4x or 10x over pressure (most ranges)
- 0.25% & 0.15% accuracies available (TD1000); 0.05% accuracy (TD2000)
- Gauge and absolute versions available
- Low current consumption (ideal for wireless applications)
- Optional digital output as a pressure or a temperature switch (voltage outputs only)
- Spike Monitoring Technology™
- Vac to 10,000 PSI ranges
- Voltage and current outputs
- Custom pressure ranges and outputs available (with same day shipping)
- Optional IP69K electrical connection
- Operating temperature range equals compensated temperature range
- Mating cable assemblies available
- Oxygen cleaning available



## TDH 30/40

- Low cost industrial grade OEM Transducers
- Economical and low cost
- 1.5x over pressure
- 1% accuracy (TDH30) or 0.4% (TDH40)
- 0-5V, 4-20mA, 0-10V, & 0.5-4.5 ratiometric outputs
- 9.4 Mini Din, M12, or Packard electrical connector
- 0-10,000 PSI ranges
- Mating cable assemblies available
- Custom configurations available
- Oxygen cleaning available



## TDH 33/43

- Compact design, industrial grade transducers
- All stainless steel wetted parts
- Economical and low cost
- Deutsch connection available
- OEM tested and approved
- 3x over pressure
- 316 Stainless steel housing
- VAC to 10,000 PSI ranges
- 1% accuracy (TDH33) or 0.4% (TDH43)
- 0-5V, 4-20mA, 0-10V, & 0.5-4.5 ratiometric outputs
- Mating cable assemblies available
- Custom configurations available
- Oxygen cleaning available

Applications: Hydraulic / Mobile Hydraulic, pneumatic systems, food and beverage industry, refrigeration systems, pumps and compressors, energy and water management, construction, agricultural equipment, and many others.



## TDEPD

Field Programmable Pressure Switch/Transducer with Integrated LED Display

Pressure transducer LED readout scrolls 360°. Color-coded display tells you if pressure is excessively high or low without reading values.

- Completely field programmable
- Totally electronic design
- Digital switch output
- All stainless steel wetted parts
- 0.5% accuracy
- Pressure ranges up of VAC - 10K
- Spike Monitoring Technology™
- Redundant sensing elements
- Custom pressure ranges and outputs available
- Mating cable assemblies available
- Oxygen cleaning available



## TDY100

Ultra low pressure transducer for industrial applications requiring measurement of non-corrosive liquids and gases.

- Low cost and economical
- Low static and thermal errors
- EMI/RFI protection
- Wide operating temperature range
- 2X rated pressure over range protection
- 5X or 750 PSI burst pressure
- < +/- 0.5% BFSL accuracy
- +/- 0.25% FS, typical stability
- Pressure ranges from 0-650 PSI
- > 10 million pressure cycles

Applications: Pressure instrumentation, water level, boiler controls, pneumatics, HVAC/R systems



## TDEPT

The TDEPT Series Ultra-High Resolution Digital Measurement 6x Over Pressure OEM Pressure Transducer for Injection Molding Machines

- Totally digital proprietary design
- Special 20,000 psi header with no snubber
- Optional Maintenance Mode output with LED indication
- All stainless steel housing and wetted parts
- 6 pin Bendix connector
- Voltage output
- 6x over pressure
- 4-wire connection
- Spike Monitoring Technology™ (SMT)
- Innovative redundant sensing elements

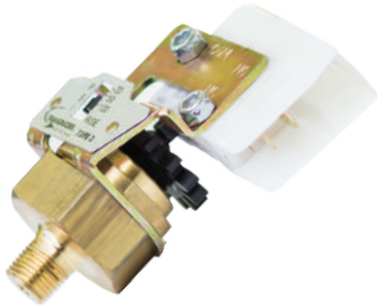


## TDH31/41

- Low Cost industrial grade vacuum pressure transducer
- 1.5x Over Pressure
- Full vacuum to 285 psi ranges
- 1% Accuracy (TDH31) or 0.4% (TDH41)
- 0-5V, 0-10V, and 4-20mA outputs
- 9.4 Mini Din, M12, or Packard electrical connector
- Custom pressure ranges and outputs available
- Mating cable assemblies available
- Oxygen cleaning available



# Adjustable Pressure Switches



## TDPS 1-3

Adjustable Pressure Switches

- Snap action low cost pressure switch
- Versatile & economical
- Adjustable Set Point
- Pressure Ranges 2 to 120 psi
- 10 Amp Current Rating

## TDPS 4-10

High Pressure Adjustable Pressure Switches

- Snap action switch
- Mechanical adjustable switch
- Several configurations in stock
- 10 to 7500 psi adjustable pressure range
- 5 Amp current rating, 10 Amp available
- Several electrical connections available



## TDPS 11-13

Pressure Switches With Adjustable Set Point

- Snap action switch
- Industrial Grade Pressure Switches
- 3 to 1500 psi Adjustable Pressure Range
- 3 Amp Current Rating
- Several electrical & pressure connection options

## Fixed Set Point Pressure Switches



### TDPS20

Factory Preset Pressure Switches

- Snap action switch
- Maximum operating pressure 2000 psi
- Range 10 to 300 psi
- 5 Amp Current Rating
- 5% set point tolerance
- Various pressure and electrical connections available



### TDPS23

High Pressure Factory Set Switches

- Snap action switch
- Maximum operating pressure 5000 psi
- Set pressure range 40 to 4000 psi
- 5 amp current rating, 10 amp available
- Multiple pressure and electrical connections available



### TDEPS

Electronic Pressure Switch with Relay Output

- Totally electronic design
- High or low current, relay output
- Factory set switch with custom set point and hysteresis option available
- UL recognized component
- Solid stainless steel header/diaphragm
- 0.5% accuracy
- Pressure ranges VAC-10K PSI
- Custom pressure ranges and outputs available
- Spike Monitoring Technology™
- Redundant sensing elements
- Mating cable assemblies available
- Oxygen cleaning available



MECHANICAL



ELECTRONIC

## Submersible Pressure Transducers

SUBMERSIBLE



### TDH80

Submersible Fresh Water Pressure Transducer

- Low Cost
- Nose cone or 1/4 NPT
- Various Cable Lengths
- 4-20mA, 1-5V, & 0-10V outputs available
- 0.5% Accuracy
- PE cable
- Optional suggested desiccant filter



### TDA85

Submersible Waste Water Pressure Transducer

- Rugged design and kynar cable for harsh waste water environments
- 316 stainless steel diaphragm
- Low Cost
- Flush diaphragm transducer with debris avoidance standoff
- 0.25% Accuracy
- 4-20mA Output
- Lightning/surge protection
- Optional suggested desiccant filter

ABOUT

Transducers Direct is an Ohio based privately held pressure transducer, pressure switch and industrial components manufacturer.

We help end users, OEM's, military, homeland defense, and Fortune 100 companies around the world to improve performance, shorten deliveries, and reduce costs.



Contact Us:

Transducers Direct  
12115 Ellington Court  
Cincinnati, Ohio 45249

Phone: 513-583-9491  
Fax: 513-583-9476

[sales@transducersdirect.com](mailto:sales@transducersdirect.com)