

## Very low differential pressure sensors

- ranges from +/-500 Pa to 0-50 Pa
- accuracy 0.25%
- 2-wire 4-20mA or 3-wire 0-5V output
- compact and lightweight
- welded-aluminium construction
- very rugged
- IP65 protection
- wet air and aggressive vapours compatible

### Description

The DT\_ULP series pressure sensors provide accurate measurement of gas and liquids differential pressure in very low ranges from 5mbar downwards. The standard output is 2-wire 4 to 20mA current loop, voltage output being an option. They are suitable for mono or bi-directional measurement.

### Operation

A high-resolution contactless inductive position detector measures the position of a convoluted diaphragm exposed to the process media differential pressure. The detector is sealed from the media. The detector operation is insensitive to the media allowing the sensor operation with any media chemically compatible with its construction materials.

The sensing element, the transducer, the electronics and the mechanical parts are optimised for every single application.

### Performances

The DT\_ULP series design favours ruggedness and reliability and makes it suitable for demanding industrial applications. The micro-processor based electronics enhances compensation quality as well as it potentially offers a gateway to digital communications.

The DT\_ULP series combine well-proven techniques with state of the art design.



## Applications

- Clean rooms
- Glove boxes
- Wind-tunnels
- Furnace monitoring
- Painting cabinets
- Filter monitoring
- Off-road vehicles

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