



DTL is a transmitter for measuring differential pressure in air and neutral gases in air-handling systems etc, e.g. for controlling pressure in ventilation systems .

- \* Several measuring ranges within 0...5000 Pa
- \* Output signal 0...10V or 4...20 mA
- \* Quick and easy mounting
- \* High level of accuracy and stability
- \* With or without display
- \* Models with square root output signal

## Function

The transmitter consists of a plastic sensor-housing and a membrane of silicon LSR. The differential pressure affects the membrane which is connected to the sensor element.

The element is manufactured with state-of-the art technology with a ceramic beam onto which thick-film resistors have been applied. The pressure on the membrane causes a movement which is transferred to the ceramic beam. Flexing of the beam gives changes in resistance. The changes in resistance are transmitted by means of built-in electronics to an analogue output signal.

The measuring element gives a rapid response and a high level of accuracy.

The properties of the ceramic element ensure that the transmitter has excellent long-term stability.

### The sensor housing

The sensor housing is made of transparent plastic. The cable input is on the left hand side with cable gland. The cover, of red plastic, is closed by a single screw and can easily be detached from the hinges when mounting.

### Display

DTL is also available with LCD display (3 ½ digits ) on the front showing the current pressure.

See also model DMD, leaflet 4-340 for differential pressure sensor with display.

### Square root calculation

This is used in applications with Prandtl-tube measurement giving the differential pressure depending on the current airflow. DTL can be supplied with built-in conversion of the output signal to the square root of the differential pressure being measured. In this case DTL gives an output signal that is proportional to the current airflow.

### Mounting

The sensor should be mounted vertically using screws in the mounting holes on the back edge.

There are also two mounting holes on the upper side of the sensor housing.

### Connection set

A connection set consisting of tubing and pressure outlets can be supplied as accessory to DTL. See overleaf.

