



**Product Description**

**Differential Pressure Transmitter**

The differential pressure transmitter NCSPDA1 is the accurate, general purpose differential pressure transducer designed for demanding HVAC and Energy Management applications. The transmitter has two jumper selectable pressure ranges. It is used to measure differential pressure, overpressure and vacuum.

**Application**

The differential pressure transmitter is most suitable for monitoring overpressure, vacuum and differential pressure of air and other non-combustible, non-aggressive gases.

**Installation**

The sensor can be mounted in any position, as the self-compensating piezoresistive pressure transducer eliminates any possible mounting error.

**Ordering Codes**

NCSPDA1	Differential Pressure Transmitter
NCSPDA1LCD	Differential Pressure Transmitter with display

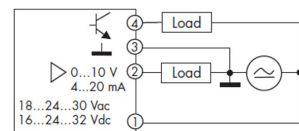
**Features & Benefits**

- ▶ Differential Air Pressure Transmitter
- ▶ Designed for Accurate Pressure Differential Detection in HVAC Systems
- ▶ Self-Compensating Piezoresistive Pressure Transducer
- ▶ Can be mounted in any position
- ▶ IP54 Enclosure

**Technical Information**

<b>Measuring Method</b>	Piezoresistive Pressure Transducer
<b>Pressure Range</b>	(configurable with jumper) 0 ... 500 Pa 0 ... 1000 Pa
<b>Output Signals</b>	0-10VDC (factory default, jumper selectable) 4-20 mA
<b>Sample Media</b>	Air and other non-combustible, non-aggressive gases
<b>Operating Environment</b>	0 ... 50 °C, 0 ... 95 % RH (non-condensing)
<b>Linearity and Hysteresis Error</b>	< ±1% of full scale
<b>Long Term Stability</b>	< ±0.5 to ±2.5% of full scale/year, depending on pressure range
<b>Repetition Accuracy</b>	< ±0.2% of full scale
<b>Response Time</b>	100ms (selectable)
<b>Maximum Current Drawn</b>	60mA (without display) or 110mA (with optional display)
<b>Process Connection</b>	6mm hose connection
<b>Electrical Connection</b>	Screw terminal block for wires up to 1.5 mm <sup>2</sup>
<b>Case Dimensions (mm)</b>	86 X 58
<b>Weight</b>	130g
<b>Protection Class</b>	IP54 with casing

**Wiring Diagram**



4	SA	Switching output, npn
3	GO	Ground GND
2	Y	Output signal 0 ... 10 V / 4 ... 20 mA
1	G	Supply voltage 24 VAC/ VDC