

# Ultra Low Differential Pressure Transmitter



## NP785

- ✓ Available nominal ranges:  $\pm 50$  Pa ( $\pm 0.2$  "W.C.) to  $\pm 1000$  mbar ( $\pm 401.47$  "W.C.)
- ✓ Ranges fully **configurable by software** within rated range
- ✓ **Temperature** compensated for higher stability at low pressures
- ✓ Output signal DC **0 to 10 V** or **4 to 20 mA** and slave Modbus RTU, in **one-only-model**
- ✓ Resistant to overpressure
- ✓ Auto-zero Key
- ✓ Diagnostic LED

Ideal for HVAC, clean-room and flow measurement applications, the **NP785** is an ultra low differential pressure transmitter for measuring very small over-pressure, under-pressure and differential pressure in neutral, non-corrosive gaseous media. It provides a pressure proportional linear signal output with configurable measuring range via USB using the configuration software.

**NP785** can operate bi-directionally, providing the ability to measure differential pressure ranges from vacuum to positive pressure. It is housed in a DIN rail mountable ABS/PC enclosure and its nickel plated brass fittings accept pneumatic hoses with 4 or 6 mm internal diameter.

The analog output can be set to either 0-10 V or 4-20 mA while having an RS485 port with Modbus RTU communication protocol. Designed for HVAC and industrial environment, the **NP785** ensures temperature compensation for long-term stability and complies with EMC standards, providing robustness and reliability for a wide range of applications.

	NP785-50PA	NP785-100PA	NP785-05	NP785-20	NP785-68	NP785-400	NP785-1000
<b>Measurement Range</b>	-50 a 50 Pa (0.2 "W.C)	-100 a 100 Pa (0.4 "W.C)	-5 a 5 mbar (2.01 "W.C)	-20 a 20 mbar (8.03 "W.C)	-68 a 68 mbar (27.3 "W.C)	-400 a 400 mbar (160.59 "W.C)	-1000 a 1000 mbar (401.47 "W.C)
<b>Proof Pressure*</b>	68 mbar	68 mbar	100 mbar	300 mbar	136 mbar	800 mbar	2000 mbar
<b>Burst Pressure</b>	200 mbar	200 mbar	200 mbar	400 mbar	2000 mbar	4000 mbar	4000 mbar
<b>Line Pressure</b>	68 mbar	68 mbar	100 mbar	300 mbar	136 mbar	800 mbar	2000 mbar
<b>Accuracy</b>	1.5 % of maximum range	1 % of maximum range	1 % of maximum range	0.5 % of maximum range	1 % of maximum range	0.5 % of maximum range	0.5 % of maximum range
<b>Effective sensor resolution</b>	0.005 % F.S.	0.002 % F.S.	0.008 % F.S.	0.008 % F.S.	0.032 % F.S.	0.013 % F.S.	0.01 % F.S.
<b>Operating Temperature</b>	-20 a 70 °C (-4 to 158 °F)		-5 a 65 °C (23 to 149 °F)	-20 a 70 °C (-4 to 158 °F)			
<b>Power Supply Voltage</b>	PWR terminals: 12 Vdc to 30 Vdc USB cable power: 4.75 Vdc to 5.25 Vdc Internal protection against reverse polarity						
<b>Consumption</b>	45 mA $\pm$ 10% @ 24Vdc						
<b>Protection Rating</b>	IP20						
<b>Dimensions</b>	19 x 77.9 x 72 mm						
<b>Housing</b>	ABS + PC						
<b>EMC</b>	EN/IEC 61326-1						
<b>Certification</b>	CE						

\* **Proof Pressure** is defined as the maximum pressure at which the device can be subjected and which still maintains its performance within specifications after returning to the operating range.  
\*\* **Maximum Range** at 25°C.