

Ultra Low Differential Pressure Transmitter



NP785

- ✓ Available nominal ranges: ± 50 Pa (± 0.2 "W.C.) to ± 1000 mbar (± 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
Measurement Range	-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)
Proof Pressure*	68 mbar	68 mbar	100 mbar	300 mbar	136 mbar	800 mbar	2000 mbar
Burst Pressure	200 mbar	200 mbar	200 mbar	400 mbar	2000 mbar	4000 mbar	4000 mbar
Line Pressure	68 mbar	68 mbar	100 mbar	300 mbar	136 mbar	800 mbar	2000 mbar
Accuracy	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
Effective sensor resolution	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.
Operating Temperature	-20 a 70 °C (-4 to 158 °F)		-5 a 65 °C (23 to 149 °F)	-20 a 70 °C (-4 to 158 °F)			
Power Supply Voltage	PWR terminals: 12 Vdc to 30 Vdc USB cable power: 4.75 Vdc to 5.25 Vdc Internal protection against reverse polarity						
Consumption	45 mA ± 10% @ 24Vdc						
Protection Rating	IP20						
Dimensions	19 x 77.9 x 72 mm						
Housing	ABS + PC						
EMC	EN/IEC 61326-1						
Certification	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.