

Ultra Low Differential Pressure Transmitter



NP785

- ✓ Available nominal ranges: **± 5 mbar** and **± 20 mbar**
- ✓ Ranges fully **configurable by software** within rated range
- ✓ **Temperature** compensated for higher stability at low pressures
- ✓ **4 or 6 mm** nickel plated brass fittings for pneumatic hoses
- ✓ Output signal **DC 0 to 10 V** or **4 to 20 mA** and slave Modbus RTU, in **one-only-model**
- ✓ Resistant to overpressure



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.

	NP785-05	NP785-20
Measuring Range	-5 to 5 mbar	-20 to 20 mbar
	Reprogrammable within nominal range.	
Burst Pressure	200 mbar	400 mbar
Proof Pressure*	100 mbar	300 mbar
Accuracy	± 1% of maximum range** (± 0.5% upon request)	
Operating Temperature	-5 to 65 °C (23 to 149°F)	-20 to 85 °C (-4 to 185°F)
Indication Resolution (per unit)	0.001 mbar	
	0.01 mpsi	
	0.001 inH ₂ O	
	0.01 mmH ₂ O	
	0.1 Pa	

Input	Two 4 or 6 mm (0.16 or 2.36 in) inner diameter fittings for pneumatic hoses.
Output	0-10 V or 4-20 mA, user configurable.
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	IP 20
Dimensions	19 x 77.9 x 72 mm (0.75 x 3.07 x 2.83 in)
Housing	ABS + PC
EMC	EN/IEC 61326-1
Configuration Software	NOVUS NXperience free software (via USB)
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.