

## Membrane differential pressure instruments

### PASCAL MAXX SERIES- Simple and low cost

#### Differential pressure instrument

##### PascalMaxx 500/2000 Z

- Easy set-up
- High precision silicon membrane sensor
- Automatic Zero-Point calibration
- Simple 2-point calibration
- Adjustable analogue outputs (V and mA)
- 1 adjustable switch (230V) for 2 thresholds
- Password protection system
- Large and clear LCD readout



#### Technical data:

Measurement 0...500 Pa or 0...2000 Pa within temperature range 0...50°C range:

Offset Drift: < 2 Pa/year (automatic Zero-Point calibration)

Accuracy: PascalMaxx 500 Z: +/- 1.0% of full scale

PascalMaxx 2000 Z: +/- 0.5% of full scale

**Clean rooms \* Fan filter units \* Air handling units**

# PASCAL ST SERIES- Precise and versatile



Thanks to new sensor technology, optimized measurement electronics, software and an **integrated automatic zero-point calibration**, these instruments excel with their extremely accurate and stable readings. Various software functions for adjustment, password protection, measurement filters and intervals, scaleable outputs as well as alarm settings emphasize the versatility of this instrument. With its vast array of applications, it is ideal for demanding dp-controls. This is the first ever membrane differential pressure instrument offering outstanding performance at a competitive price!

## Main features:

Measurement ranges :	<b>0...+50 Pa / 0...+200 Pa</b> ( <i>unidirectional</i> )
Measurement accuracy at 20°C:	50 : <b>+/- 0.6%</b> ( <i>of the full scale</i> ) 200 : <b>+/- 0.2%</b> ( <i>of the full scale</i> )
Hysteresis :	<b>+/- 0.15 Pa</b> ( <i>over the full scale</i> )
Typical offset drift :	<b>+/- 0.15 Pa</b> ( <i>automatic zero-point calibration</i> )
Configuration :	<b>PascalTool WIN software</b> (Win98 / NT / 2000 / XP / Win7)

## Differential pressure measuring system Pascal-ST/Z

*Accurate, fast, versatile, stable, robust*

The Pascal-ST/Z differential pressure measuring devices are precision instruments for monitoring and controlling pressure differences of gaseous media in low ranges. The measurement principle is based on the static differential pressure detection with a silicon membrane. Beside a high robustness and accuracy this devices offer an easy and intuitive handling and start up. The zero calibration is performed automatically so the instrument is ready for use immediately after installation. All other configurations can be done using the user friendly **PascalTool-Win** software (from version V 4.11). The software can be downloaded for free from the Novasina homepage and installed on a local personal computer (Windows).

## Technical data:

Dimensions:	68 x 119 x 29 mm
Weight:	160 g
Meas. ranges:	0...+50 Pa 0...+200 Pa
Max. resolution:	0.1 Pa (50-series) 0.1 Pa (200-series)
Meas. accuracy:	50: +/- 0.6% (of full scale) 200: +/- 0.2% (of full scale)
Temperature effect:	50 : < 0.01 Pa /°C 200 : < 0.03 Pa /°C
Hysteresis:	+/- 0.15 Pa (const. Temp.)
Offset-Drift:	+/- 0.15 Pa (auto zero)
Max. overpressure:	+/- 20'000 Pa
Operating temp.:	5...45°C
Power supply:	10.5... 35 VDC
Protection:	IP 54 / EMC



## Options:



**260 0036** Pascal STS 50 Z

### Pascal-STS 50 Z

**Technical data:**

Measurement range: 0 ... 50 Pa  
2 selectable thresholds, 2 relays (close/make contact)  
Configuration by PascalTool-Win software  
Power supply: 10.5 ... 35 VDC ; Power consumption max. 2.5 Watt  
Relays contacts: 2 x 48V, 2 A ; Weight: 320 g



**260 0037** Pascal STS 200 Z

### Pascal-STS 200 Z

**Technical data:**

Measurement range: 0 ... 200 Pa  
2 selectable thresholds, 2 relays (close/make contact)  
Configuration by PascalTool-Win software  
Power supply: 10.5 ... 35 VDC ; Power consumption max. 2.5 Watt  
Relays contacts: 2 x 48V, 2 A ; Weight: 320 g



**260 0037** Pascal STVS 50 Z

### Pascal-STVS 50 Z

**Technical data:**

Measurement range: 0 ... 50 Pa  
2 selectable thresholds, 2 relays (close/make contact)  
Configuration by PascalTool-Win software ; Display: LCD Dot Matrix  
Power supply: 10.5 ... 35 VDC ; Power consumption max. 2.5 Watt  
Relays contacts: 2 x 48V, 2 A ; Weight: 320 g



**260 0041** Pascal STVS 200 Z

### Pascal-STVS 200 Z

**Technical data:**

Measurement range: 0 ... 200 Pa  
2 relays (close/make contact)  
Configuration by PascalTool-Win software ; Display: LCD Dot Matrix  
Power supply: 10.5 ... 35 VDC ; Power consumption max. 2.5 Watt  
Relays contacts: 2 x 48V, 2 A ; Weight: 320 g



**260 0034** Pascal STD 50 Z

### Pascal-STD 50 Z

**Technical data:**

Meas. range: 0 ... 50 Pa ; **Output: analogue output**  
**U : 0/2...10VDC (max.500 Ohm) ; I : 0/4...20mA (max.500 Ohm)**  
freely scalable & adjustable ; configuration by PascalTool-Win software  
Power supply: 10.5 ... 35 VDC ; Power consumption max. 2.5 Watt  
Weight: 320 g



**260 0038** Pascal STD 200 Z

### Pascal-STD 200 Z

**Technical data:**

Measurement range: 0 ... 200 Pa ; **Output: analogue output**  
**U : 0/2...10VDC (max.500 Ohm) ; I : 0/4...20mA (max.500 Ohm)**  
freely scalable & adjustable ; Configuration by PascalTool-Winsoftware  
Power supply: 10.5 ... 35 VDC ; Power consumption max. 2.5 Watt  
Weight: 320 g



**260 0035** Pascal STV 50 Z

### Pascal-STV 50 Z

**Technical data:**

Measurement range: 0 ... 50 Pa ; **Output: analogue output**  
**U : 0/2...10VDC (max.500 Ohm) ; I : 0/4...20mA (max.500 Ohm)**  
freely scalable & adjustable ; Configuration by PascalTool-Win software  
Power supply: 10.5 ... 35 VDC ; Power consumption max. 2.5 Watt  
Display: LCD Dot Matrix  
Weight: 320 g



**260 0039** Pascal STV 200 Z

### Pascal-STV 200 Z

**Technical data:**

Measurement range: 0 ... 200 Pa ; **Output: analogue output**  
**U : 0/2...10VDC (max.500 Ohm) ; I : 0/4...20mA (max.500 Ohm)**  
freely scalable & adjustable ; Configuration by PascalTool-Win software  
Power supply: 10.5 ... 35 VDC ; Power consumption max. 2.5 Watt  
Display: LCD Dot Matrix  
Weight: 320 g