

Attractive price, accuracy, flexibility thanks to membrane technology

WITH AUTOMATIC ZERO-POINT CALIBRATION

Pascal-STV 50 Z	P/N 260 0035
Meas. range :	050 Pa (unidirectional)
Power supply :	24VDC
Signal output :	0/420mA, 0/210V, RS-232
Pascal-STV 200 Z	: P/N 260 0039
Meas. range :	0200 Pa (unidirectional)
Power supply :	24VDC
Signal output :	0/420mA, 0/210V, RS-232

Versions :



Pascal-STV/Z

DIFFERENTIAL PRESSURE MEASURING INSTRUMENT FOR CLEAN ROOMS, LAMINAR FLOWBOXES AND FILTER SYSTEMS

General information

With the Pascal-ST/Z product line Novasina expands its offer for clean room applications. The measurement devices operate following the static measurement principle with membrane technology. Hence they can be installed, where instruments with dynamic differential pressure (mass flow) cannot be used.

0.18 State-of-the-art electronic and software combined with an automatic zero-point and gain calibration enable accurate and reproducible measurements.

The Pascal-ST/Z are available for 2 measurement ranges, from 0 to 50 and 0 to 200 Pa. For its setting the PascalTool-WIN configuration software is available. The communication between PC and instrument is carried out by a RS-232 interface at the front side of the device housing.

Features

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).10	\checkmark	High cost efficiency
	V	Excellent accuracy and reproducibility
).08	V	Automatic Zero-Point calibra- tion
	\checkmark	No position dependency
	\checkmark	Long term stable
).06	V	Easy adjustable and configu- rable by PC
	1	Password protection
	\checkmark	Easy mounting and startup
).04	V	Scalable & adjustable analo- gue outputs
	\checkmark	Alarm visualisation by LED
	\checkmark	Integrated 2-line LCDisplay
).02	V	Possibility to measure the air velocity
	\checkmark	SWISS-MADE Quality

0 Pa _____ 0 in H₂0

Depending on the application, various instrument types are available. With alarm relays or analogue outputs, with our without display. All devices are designed for a unidirectional measurement (e.g. 0...+50 Pa).

The instruments can be checked and adjusted with the PascalTool-WIN configuration software. A password system protects any access to the configuration parameters.

The Pascal-STV/Z disposes of a scalable and adjustable analogue output (mA or V). This makes it fit for integration and adaptation to controlling systems (PLC). A digital output (RS-232) is also integrated by default. Moreover it disposes of an integrated 2-line LCDisplay.

Applications

Measurement and control of low air differential pressures and air velocities:

- Industrial HVAC installations for processes
- Clean rooms applications
- Isolators, Laminar Flowboxes
- Hospitals, operating rooms
- Laboratories, Testing rooms
- Monitoring systems



Configuration software PascalTool-WIN

Technical data

Туре	Pascal-STV 50 Z	Pascal-STV 200 Z	
Part no.	260 0035	260 0039	
Measurement range	0 +50 Pa	0 +200 Pa	
Max. permissible op. pressure	+ 50 Pa	+ 200 Pa	
Accuracy at 20°C	± 0.3 % FS ± 1 digit	± 0.1 % FS ± 1 digit (FS=full scale)	
Temperature effect	< 0.01 Pa/°C	< 0.03 Pa/°C	
Max. resolution	0.1 Pa		
Measurement interval	approx. 20 measurements / second		
Hysteresis	± 0.15 Pa (at constant temperature)		
Offset-Drift	± 0.15 Pa (with automatic zero-point calibration)		
Max. permissible overpressure	± 20'000 Pa		
Operating temperature	5 45°C		
Display	Dot matrix 2 line LCD ((36 x 14 mm)	
Analogue outputs	0 10 V / 2 10 V (b	urden to ground >10 kOhm)	
(scalable and adjustable)	0 20 mA / 4 20 mA	A (burden <500 Ohm)	
Digital interface	RS-232 (ASCII-string,	complex protocol)	
Power supply	10.535 VDC		
Power consumption	max. 2.5 W (in operation	n)	
Protection	IP 54 / EMC		
Measurement medium	dry, not condensing, no	ot aggressive gases	

Accessories + Spare parts

Accessories + Spare parts	Article-No.
External power supply 90260 VAC 50/60 Hz -> 24VDC EUR plug	252 4210
External power supply 90260 VAC 50/60 Hz -> 24VDC US/JP plug	111 5967
PascalTool Win CD (SW free download from Novasina homepage)	111 6848
Configuration cable PC <-> Pascal instrument	111 6849
Factory calibration certificate	111 7603
Customer specific configuration	111 6074
Mobile dP calibrator CALIBOX 200 (range 0200 Pa)	260 0538





US/JP - P/N 111 5967



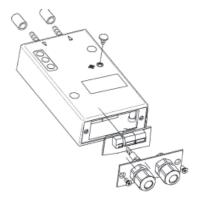
EUR - P/N 252 4210



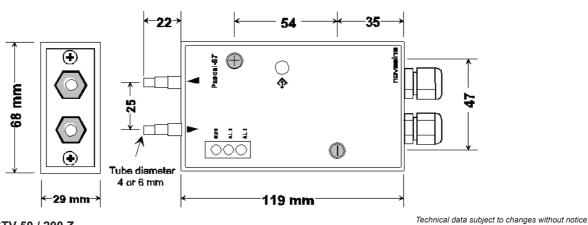
RS-232 cable 1.5m with D-Sub 9 - P/N 111 6849



CALIBOX 200 - P/N 260 0538



Pascal-STV 50 / 200 Z



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