

# Pressure Sensors Array



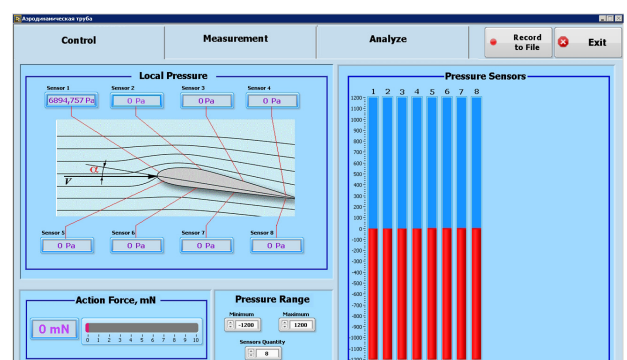
## Overview

Pressure sensors' array (PSA) is the digital version of traditional fluid-filled multi-tube manometers. It is intended for use in wide range of areas where it's required to simultaneously measure pressure in multiple channels. It's mostly suitable for use with wind tunnels for simultaneous measurement of pressure in several points. There are currently 2 modifications of pressure sensors' array 8 and 24 channels. The PSA does not require any additional data acquisition system for pressure measurement. The PSA has USB interface for connection to the PC. The PSA is supplied with open source software example written in LabVIEW, as well as with free license activation allowing easy integration into the existing system.

The default pressure measurement range is  $\pm 7$  kPa. The measurement range can be customized per customer requirement. The measurements from the sensors can be read individually, in groups or all at once. The PSAs can be daisy-chained together if more than 24 channels pressure measurements are required.

## Technical Specifications

- Pressure range:  $\pm 7$  kPa<sup>1</sup>
- Power: 100-240VAC 50 or 60 Hz
- Accuracy: 5%<sup>2</sup>
- Sampling rate: 1kHz
- USB interface for PC connection
- Temperature compensated measurement
- Operating temperature range: 0°C to +40°C
- 8 channel PSA dimensions (W x L x H): 107 x 130 x 77 mm
- 24 channel PSA dimensions (W x L x H): 170 x 171 x 77 mm



<sup>1</sup> The pressure measurement range can be customized per customer requirements.

<sup>2</sup> Can be customized per customer requirements.