

192.168.4.1

**Browser Address Bar.**

IP Address of the Browser App. Alternatively, use <http://ventcon.local>  
The PID control algorithm is working regardless of WiFi connection.

**Real-Time Status Indicators.****OUTLET PRESSURE:**

The regulated pressure as measured by the sensor. This is the Process Variable that the PID control algorithm is working to get close to the Setpoint pressure.

**VALVE DUTY CYCLE:**

Measure of electrical current and regulator orifice area. This represents the output signal sent from the PID control algorithm to the regulator valve.

**Live Trend Chart.**

The gear icon ( ) opens a window to set the chart limits and grid settings.

The 'Show Chart' checkbox disables the chart (use when WiFi is poor)

The blue line tracks OUTLET PRESSURE over time. An OUTLET PRESSURE randomly hovering just above 0 bar(g) indicates a not working or not connected sensor.

The green line tracks VALVE DUTY CYCLE over time.

The orange line tracks the SETPOINT pressure over time. This represents the target pressure for the regulator algorithm and can be set during operation in the Control Parameters.

**Control Parameters****SETPOINT** Outlet Pressure in bar(g)
**PID**

Reset PID

**Proportional Kp****Integral Ki (Ti=500.0 ms)****Derivative Kd (Td=15.0 ms)****Auxiliary Settings****Low Pass Filter Strength on Pressure Sensor (α)****Actuator PWM Frequency in Hz****Actuator PWM Resolution in bits****PID Sample Time in ms**

10 ms

**Outlet Pressure Sensor Settings****PRESSURE RANGE**

Min	0 bar(g)	Min	0.5 V
Max	10 bar(g)	Max	4.5 V

**System Information****Network Status**

VENTCON\_AP, IP: 192.168.4.1

[Download User Manual \(PDF\)](#)

# VENTREX

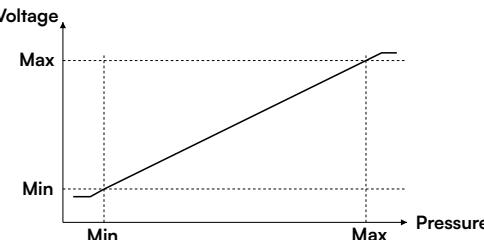
VENTCON Pressure Control System

v2.6.6 (Build: Feb 20 2026 15:58:20) by HAB

[Reset to Default](#)

**Outlet Pressure Sensor Settings.****Voltage Range and Pressure Range.**

The upper and lower limits define the operational boundaries of the sensor, as specified in the sensor datasheet or determined through calibration.

**System Information.**

**Network Status:** The Indicator will be green when connected, red when disconnected.  
Also, this user manual can be downloaded from here.

**Reset to Default.**

Upon confirmation, this button restores all user-adjustable settings on the Browser App to their default values.