PROPORTION-AIR

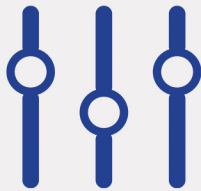## Introducing
the P2 Profiler

A simple programmable piecewise signal generator. Designed to work with or without your PLC to create, modify and run custom pressure profiles with ease.

96 Events

96 Operational events can be programmed with each profile.

1ms Resolution

Event response and resolution is equal to 1ms *±0.25ms*.

3 Triggers

For each programmed event, 3 customizable triggers can be used.

About the P2 Profiler

The P2 Profiler is a standalone server that incorporates a mini PLC controller. This mini PLC controller can either be housed in most Proportion-Air pressure and flow control devices or implemented with a *go between* external device. The server will execute pressure or flow changes based on time and/or input triggers. With the execution of an event the pressure (or flow) will go to the programmed event output for the programmed time. Once time has expired, it will advance to the next event, executing each event in order until all events have been executed.

Get in touch

Phone
317.335.2602
Email
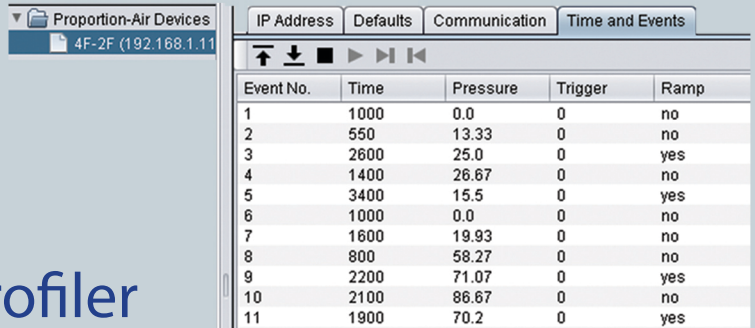info@proportionair.com
Website
ProportionAir.com
Address
8250 N. 600 West
McCordsville, IN 46055

the P2 Profiler

Create profile in Excel

A	B	C	D	E	F	G	H	I
Event No.	Time	Pressure	Trigger	Ramp	Ouput1	Ouput2	Valve	Test
1	1000	0.00	0	No	on	Off	Enabled	No
2	550	13.33	0	No	on	Off	Enabled	No
3	2600	25.00	0	No	on	Off	Enabled	No
4	1400	26.67	0	Yes	on	Off	Enabled	No
5	3400	15.50	0	No	on	Off	Enabled	No
6	1000	0.00	1	Yes	on	Off	Enabled	No
7	1600	19.93	0	Yes	on	Off	Enabled	No
8	800	58.27	0	Yes	on	Off	Enabled	No
9	2200	71.07	0	No	on	Off	Enabled	No
10	2100	86.67	0	Yes	on	Off	Enabled	No
11	1900	70.20	0	No	on	Off	Enabled	No
12	800	0.00	0	No	on	Off	Enabled	No
13	1700	19.93	0	No	on	Off	Enabled	No
14	1100	79.73	1	No	on	Off	Enabled	No
15	1000	0.00	0	Yes	on	Off	Enabled	No

Upload profile to P2 Profiler

▼ 📂 Proportion-Air Devices
　📄 4F-2F (192.168.1.11

IP Address	Defaults	Communication	Time and Events

Event No.	Time	Pressure	Trigger	Ramp
1	1000	0.0	0	no
2	550	13.33	0	no
3	2600	25.0	0	yes
4	1400	26.67	0	no
5	3400	15.5	0	yes
6	1000	0.0	0	no
7	1600	19.93	0	no
8	800	58.27	0	no
9	2200	71.07	0	yes
10	2100	86.67	0	no
11	1900	70.2	0	yes

Run profile

Tek PreVu — Noise Filter Off

1 | 2.00 V | Bw | 2.00 s | ꀀ ＼ 1.40 V | 12:35:21
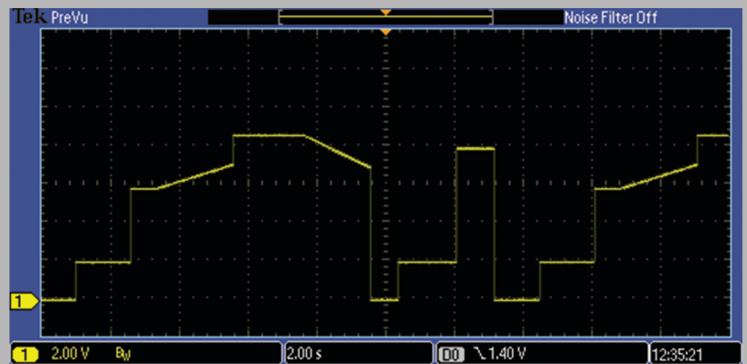
FAQ

Can the output pressure or flow be ramped?
Yes. The P2 Profiler will automatically adjust the ramp steps to provide a smooth transition between the current setpoint and the new setpoint.

Do I need a PLC to control the P2 Profiler?
No. The P2 Profiler is a mini PLC controller that does not require a PLC for operation. However, the P2 Profiler can be programmed and controlled by a PLC if desired.

Is it possible to use the P2 Profiler with older I/Ps and E/Ps?
Yes. The P2 Profiler is available with an external connection box that can be used to connect to any analog commanded pressure regulator.

Do I have to re-upload the excel file everytime I modify the profile?
No. Once the profile is uploaded, the parameters of the profile can be modified directly in the GUI *(Graphical User Interface)*.

I have multiple electronic valves, can I control them all from one screen?
Yes. you can easily switch between all of your valves within the P2 Profiler dashboard. Each device *(with the appropriate hardware)* is self-discoverable on the network and will show up in the dashboard ready to go!

Can I only control pressure using the P2 Profiler?
No. The P2 Profiler can be used in conjunction with Proportion-Air pressure and flow controllers to control; PRESSURE, FLOW, VACUUM, FORCE, TENSION or POSITION. *---Oh Yeah, you can even control the TEMPERATURE of Saturated Steam!*

Specifications

Electrical Power
Supply Voltage:	15-24 VDC
Supply Current:	400 mA
Electrical Connnector:	M12, 8-pin

Digital
Command Resolution:	16 bits
Feedback Resolution:	16 bits

Network Interface
Interface:	Ethernet, 10Base-T or 100 Base-TX *(autosensing)*
Protocols:	TCP/IP, UDP/IP, DHCP
Connector:	M12 D-Code Ethernet Connector

Environmental
Operation Temp:	32-158 °F *(0-70 ℃)*

Operational Details
Number of Events:	1 to 96 Events
Event Resolution:	1ms *±0.25ms*
Pressure Resolution:	±0.02 psig
Trigger:	+3 to +24 VDC 3 triggers/event