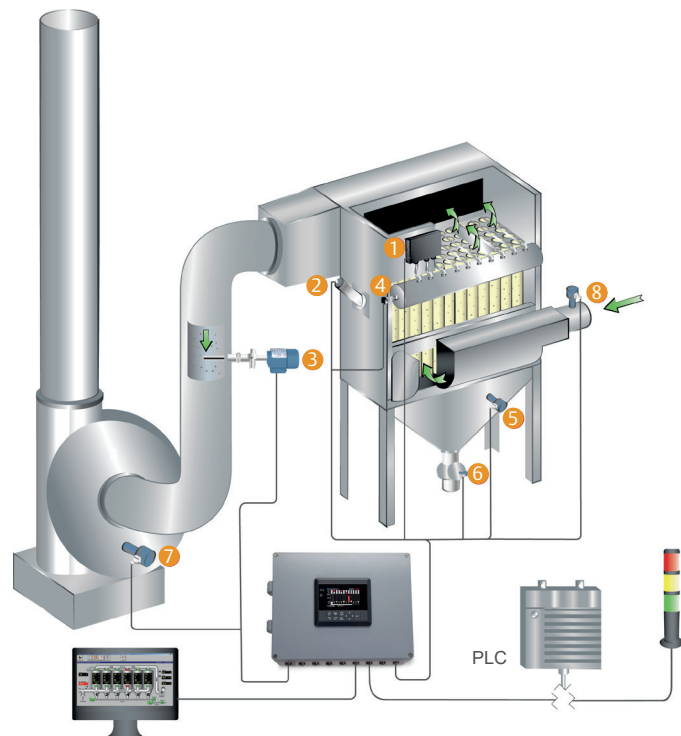


- Pulse-jet filter cleaning controller for optimizing the performance of filtration and dust collector systems.
- Application-specific control algorithms and advanced electronics maintain stable differential pressure and dust extraction velocity.
- Integrates measurement and analysis of differential pressure, particulate, header pressure, pulse counts and run time.
- Condition monitoring and diagnostics.
- Basic and PLUS models offer a wide range of features to suit application and budget needs.
- Controller modularity enables a range of configurations for small cartridge collectors to large multi-compartment baghouses.
- Extensive filter pulsejet cleaning control modes, including easily selectable pulsing patterns and a full range of basic timing modes (continuous, hi/lo, single cycle, cycle down, etc.).
- Maintains proper filter cake, lowers particulate emissions and extends filter life
- Advanced processor/display
- Discrete input control modes to integrate with manual switches or PLCs with simple discrete control.
- Airflow, fan amps, temperature, level and other inputs and control functions (dampers, VFDs, airlocks, etc.) can be added for further enhancements.
- Connectivity to a broad range of digital communications (Ethernet/IP, Modbus, PROFIBUS, PROFINET, DeviceNet, ControlNet, CanOpen, Ethernet).



- Primary I/O
- 1 Solenoids/Valves
 - 2 DP
 - 3 Particle
 - 4 Header Pressure

- Additional (Example)
- 5 Hopper Level
 - 6 Air Locks
 - 7 Fan Amps
 - 8 Temperature



Availability, design and specifications are subject to change without notice. All rights reserved.

How to Order

P 151 A M D A A A A 1 1 A A

Connection Type

P	No Connection
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Product Series

151	Controller
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Base Unit

A	Controller BASIC
B	Controller PLUS
C	Controller PLUS Low Temp.
0	No Base Unit

Communication

M	Modbus TCP/IP
R	Modbus RTU
E	EtherNet/IP
N	Profinet IO
D	DeviceNet
P	Profibus
C	ControlNet
A	CanOpen
T	EtherCat
L	CC-link
0	No communication

Functionality

D	SmartPULSE control with diagnostics for single row pulsing	
E	SmartPULSE control with diagnostics for multirow pulsing applications (recommended for >32 rows)	
B	Basic data logging	
A	D&B	only available for P151 A
C	E&B	
L	Internal Data Historian with Redundancy: 12 months process variables and alarm history plus real-time mirroring to SD card	only available for P151B & P151C
F	D&L	
G	E&L	
0	No Functionality(Module order)	

Discrete Module

A		QTY =1
B	Discrete(relay), 3 in(120/230VAC), 3 out (5Amp)	QTY =2
C		QTY =3
D		QTY =4
E		QTY =5
G		QTY =1
H	Discrete(relay), 3 in(18-32VDC), 3 out (5Amp)	QTY =2
L		QTY =3
J		QTY =4
K		QTY =5
0	No Discrete IO	

Analog Module

A		QTY =1	
B	Analog(4-20mA), 3 in 3 out	QTY =2	
C		QTY =3	
D		QTY =4	
E		QTY =5	
F			
G	Special - Analog I/O (4-20 mA) - (3) Inputs, (3) Powered Outputs	QTY =1	only available for P151B & P151C
H		QTY =2	
L		QTY =3	
J		QTY =4	
K		QTY =5	
0	No Analog IO		

Power Hub & Power Supply

	Power Hub	Power Supply
A	(1) 120/230VAC 50/60HZ, 20W 5VDC.	120/230VAC 50/60HZ input, 30W 24VDC 1.2A output
B	(2) 120/230VAC 50/60HZ, 20W 5VDC.	120/230VAC 50/60HZ input, 30W 24VDC 1.2A output
C	(1) 120/230VAC 50/60HZ, 20W 5VDC.	120/230VAC 50/60HZ input, 60W 24VDC 2.5A output
D	(2) 120/230VAC 50/60HZ, 20W 5VDC.	120/230VAC 50/60HZ input, 60W 24VDC 2.5A output
E	(1) 120/230VAC 50/60HZ, 20W 5VDC.	120/230VAC 50/60HZ input, 240W 24VDC 10A output
F	(2) 120/230VAC 50/60HZ, 20W 5VDC.	120/230VAC 50/60HZ input, 240W 24VDC 10A output
G	(1) 18-32VDC input, 20W 5VDC 4A output	18-32VDC input, 20W 24VDC 0.8A output(isolated)
H	(2) 18-32VDC input, 20W 5VDC 4A output	18-32VDC input, 20W 24VDC 0.8A output(isolated)
R	(1) 18-32 VDC input, 20 Watt 5 VDC@4 A output (isolated)	24 VDC output x 8, with short circuit protection
J	(2) 18-32 VDC input, 20 Watt 5 VDC@4 A output (isolated)	24 VDC output x 8, with short circuit protection
K	120/230VAC 50/60HZ, 20W 5VDC.	Spare (Replacement)
L	18-32 VDC input, 20 Watt 5 VDC@4 A output (isolated)	Spare (Replacement)
M	Spare (Replacement)	120/230 VAC 50/60 Hz input, 30 Watt 24 VDC @1.2A output
N	Spare (Replacement)	120/230 VAC 50/60 Hz input, 60 Watt 24 VDC @2.5 A output
P	Spare (Replacement)	120/230 VAC 50/60 Hz input, 240 Watt 24 VDC @10 A output
Q	Spare (Replacement)	18-32 VDC input, 30 Watt 24 VDC@1.25 A output (isolated)
0	No power hub & Power Supply	

How to Order

P 151 A M D A A A A 1 1 A A

Solenoid Modules (24 Modules Max)		
A	120/230 AC output x 8	
B	24 VDC output x 8	
0	No Module	
C	120/230 AC output x 8, with short circuit protection	only available for P151B & P151C
D	24 VDC output x 8, with short circuit protection	

QTY of solenoid modules		
0 to 9	0 to 9	
A	10	
B	11	
C	12	
D to P (No "I")	13 to 23	only available for P151B & P151C
R	24	

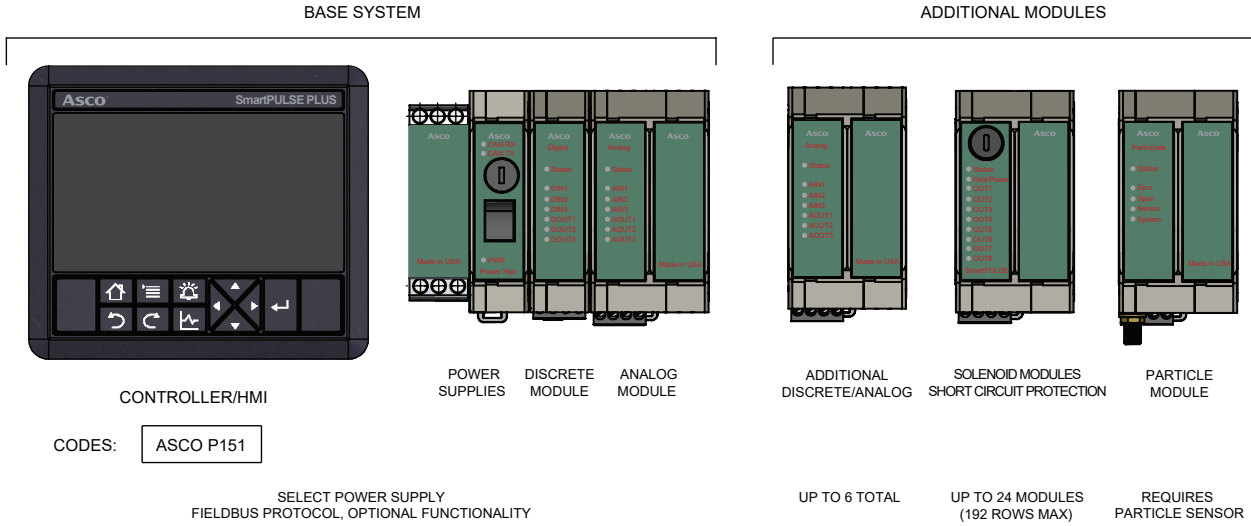
Particulate Sensor Modules (8 Modules Max.)			
1		QTY =1	
2		QTY =2	
3		QTY =3	
4	Measurement (mg/m3) with Auto Self-Checks Resolution: 0.1 pA, Range: 0 to 10,000 pA with 1% linearity	QTY =4	
5		QTY =5	
6		QTY =6	
7		QTY =7	
8		QTY =8	
9		QTY =1	
A		QTY =2	
B		QTY =3	
C	Monitoring with Auto Self-Checks Resolution: 0.5 pA, Range: 0 to 5,000 pA	QTY =4	
D		QTY =5	
E		QTY =6	
F		QTY =7	
G		QTY =8	
H		QTY =1	
J		QTY =2	
K		QTY =3	
L	Monitoring, Resolution: 0.5 pA, Range: 0 to 5,000 pA	QTY =4	
M		QTY =5	
N		QTY =6	
P		QTY =7	
Q		QTY =8	
R		QTY =1	
S		QTY =2	
T		QTY =3	
U	Detection, Resolution: 5.0 pA, Range: 0 to 5,000 pA	QTY =4	
V		QTY =5	
W		QTY =6	
X		QTY =7	
Y		QTY =8	
Z		Special – Monitoring with Auto Self-Checks Resolution: 1.0 pA, Range: 0 to 100,000 Pa	QTY =1
0		No Particle Sensor Module	

Area Classification & Enclosure		
A	Type 4X/IP 66 Heavy Duty Alum. (13" x 9") 8 Module Widths	available for P151B & P151C
B	Type 4X/IP 66 Heavy Duty Alum. (16" x 13") 12 Module Widths	
C	Type 4X/IP 66 Heavy Duty Alum. (24" x 13") 20 Module Widths	
D	Type 4/IP 66 Steel (24" x 24") 32 Module Widths	
E	Type 4/IP 66 Steel (36" x 36") 60 Module Widths	
F	Type 4/IP 66 Steel (36" x 48") 84 Module Widths	
G	Special - Type 4X/IP 66 Stainless Steel, (24" x 24")	
H	Special - Type 4X/IP 66 Stainless Steel, (36" x 36")	
J	Special - Type 4X/IP 66 Stainless Steel, (36" x 48")	available for P151 A
1	Type 4/IP 66 Steel (24" x 10) w/ Window, 16 Module Widths	
2	Type 4/IP 66 Steel (36" x 10) w/ Window, 29 Module Widths	
3	Special - Type 4X/IP 66 SS (24" x 10") w/ Window	
4	Special - Type 4X/IP 66 SS (36" x 10") w/ Window	available for P151B & P151C
K	Type 4X/IP 66 Heavy Duty Alum. (13" x 9") 8 Module Widths	
L	Type 4X/IP 66 Heavy Duty Alum. (16" x 13") 12 Module Widths	
M	Type 4X/IP 66 Heavy Duty Alum. (24" x 13") 20 Module Widths	
N	Type 4/IP 66 Steel (24" x 24") 32 Module Widths	
P	Type 4/IP 66 Steel (36" x 36") 60 Module Widths	
Q	Type 4/IP 66 Steel (36" x 48") 84 Module Widths	
R	Special - Type 4X/IP 66 Stainless Steel, (24" x 24")	
S	Special - Type 4X/IP 66 Stainless Steel, (36" x 36")	available for P151 A
T	Special - Type 4X/IP 66 Stainless Steel, (36" x 48")	
5	Type 4/IP 66 Steel (24" x 10) w/ Window, 16 Module Widths	
6	Type 4/IP 66 Steel (36" x 10) w/ Window, 29 Module Widths	
7	Special - Type 4X/IP 66 SS (24" x 10") w/ Window	available for P151 A
8	Special - Type 4X/IP 66 SS (36" x 10") w/ Window	
0	No Enclosure	

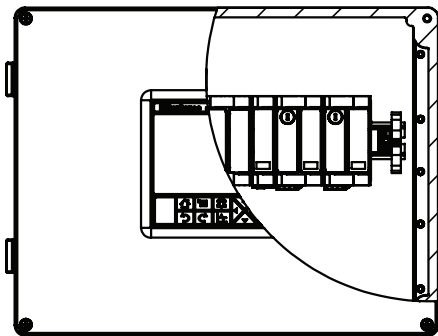
Pressure Sensor Modules		
A		QTY =1
B	Differential Pressure Sensor, Range: 0-10 InWC (0-2.5 kPa), ±1% of stated accuracy	QTY =2
C		QTY =3
D		QTY =4
E		QTY =5
J	Differential Pressure Sensor, Range: 0-1 InWC (0-0.25 kPa), ±1% of stated accuracy	QTY =1
K		QTY =2
L		QTY =3
M		QTY =4
N		QTY =5
0	No Pressure Sensor Module	

Mounting & Dimensions

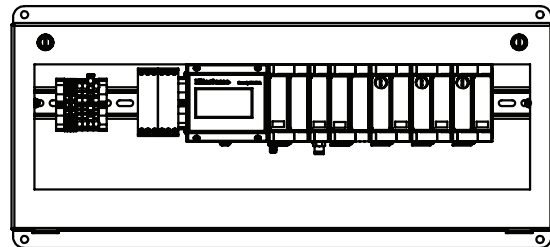
Monitor & I/O



Enclosures



NEMA 4X POWDER COATED ALUMINUM ENCLOSURE



NEMA 4 POWDER COATED STEEL ENCLOSURE

System

