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TECHNOLOGY GROUP

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Expert team | Trust guarantee | 100% satisfaction

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Find the *Presair PR11120E* at our website: ***Click HERE***

- SAFE
- SHOCKPROOF
- WATERPROOF
- EXPLOSION PROOF
- ECONOMICAL

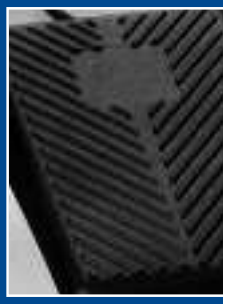
} CONTROL

Presair









800.431.2625
info@presair.com
www.presair.com

FOR SAFE, ECONOMICAL control of consumer, industrial, medical or other products and appliances in wet, chemical or explosive atmospheres or just for added safety.



The Advantages of Presair Remote Air Controls:

VARIETY

Presair offers a variety of acutator styles with a selection of colors and finishes.

AVAILABILITY

Presair air switches are made in the U.S.A. and available worldwide off the shelf or with minimal lead time.

SIZE

Presair offers compact units that can sequence four functions with an air switch in less than a 2 1/4 inch cube.

ECONOMY

Presair offers economy made possible by simplicity of design and large scale manufacturing.

SAFETY

Presair offers the safety of electrical isolation inherent to air switching. Presair actuators are designed to prevent water entry to the air tube.

EFFICIENCY

Presair offers the efficiency of air switches requiring no power source for operation (no internal relays are used).

Presair the World Class Air Switch Control

SPECIFICATIONS:

STANDARD , TINYTROL, & MAGICTROL, Air, Pressure and Vacuum Switches.

RATINGS: 2HP @ 240 VAC
1HP @ 120 VAC
21 AMPS to 250 VAC
Other ratings and sensitivities available to 25 AMPS.

MATERIAL: Acetel Body & Mechanism
Stainless Steel Springs and
Zinc-Plated or Stainless Steel Screws

TESTING: 100% Cycle Testing

APPROVAL:
UL Recognized File E80254;
CSA File LR69099

AIR SWITCHES

TINYTROL SINGLE (SPDT)



TVA111B
TVM111B

Alternate Action
TVA111A
(1/2" Mounting Thread)
TVA111B
(9/16" Mounting Thread)
TRA111A- Radial Spout
(Available with spout in any 90° position)
10 AMP, 10 AMP Very Sensitive, 25 AMP and 21 AMP SPST available.



TRA111A
TRM111A

Momentary Action
TVM111A (1/2" Mtg. Thread)
TVM111B (9/16" Mtg. Thread)
TRM111A - Radial Spout
(Available with spout in any 90° position)
10 AMP, 10 AMP Very Sensitive, 25 AMP and 21 AMP SPST available.

TINYTROL DOUBLE (DPDT)

U.S. Patent #4783580
Patented Action makes these units as sensitive as TINYTROL Single. U.S. Patent # 4783580



TVA211B
TVM211B

Alternate Action
TVA211B
(9/16 Mounting Thread)
TVA211D - Hybrid
Momentary Action
(Alternate Action Switch)
TRA211A - Radial Spout
(Available with spout in any 90° position)
Momentary Action
TVM211B
(9/16 Mounting Thread)

TINYTROL Doubles are available with other ratings, sensitivities, and configurations up to 25 amps.

AIR SWITCHES (cont'd)

ON
OFF

STANDARD™ SINGLE (SPDT)
STANDARD™ DOUBLE (DPDT)

These units perform the same functions as the TINYTROL series and are in use in many systems. The ratings are the same as the TINYTROL series.

SINGLE

ARA111A Alternate Action, SPDT
ACA111A Alternate Action, SPDT
ATA111A Threaded Mount, Alternate Action SPDT
ARM111A, ACM111A, ATM111A, Momentary, SPDT

DOUBLE

ARA211A, ACA211A, ATA211A, Alternate Action, DPDT
ARM211A, ACM211A, ATM211A, Momentary, DPDT



ARA211A
ARA111A
ARM211A
ARM111A



ATA211A
ATA111A
ATM211A
ATM111A



ACA211A
ACA111A
ACM211A
ACM111A

SPDT Units have Dummy Microswitch in one position.

FIELD ADJUSTABLE PRESSURE SWITCHES

SPST, Momentary Action



TNP411R-A1 - 1-6 PSI
TNP411R-A2 - 1-10 PSI
TNP411R-A3 - 2-22 PSI
(1/8□NPT Mounting; Finger or tool adjustable)
Size: 2.12□W x 1□0 x 2.6□H

TNP411R-A1
TNP411R-A2
TNP411R-A3

Field Adjustable switches are available factory set

PRESSURE & VACUUM SWITCHES

TINYTROL PRESSURE & VACUUM SWITCH

These miniature pressure switches with acetal bodies are available in fixed pressures from 1 psig to 50 psig.

Electrical ratings are available from 1 amp to 25 amps with horsepower ratings to 1 Hp @ 120 VAC and 2 HP @ 240 VAC. Diaphragms are available in various materials (nitrile, silicon, neoprene, EPDM, etc.)



TVP125B-XXXX
Spout for 1/8" ID tubing, 9/16" thread mount.
Size: 1 3/4"L x 1 3/4"W x 1"D



TNP125B-XXXX
1/8" NPT Pressure Port
Size: 1 3/4"L x 1 3/4"W x 1"D



TRP125B-XXXX
1/8" NPT Spout (Radial) for 1/8□ID tubing
Size: 1 3/4"L x 1 3/4"W x 1"D

* Part numbers shown above are for 25 amp units. XXXX represents pressure setting. Part number changes for other electrical ratings. Gold contacts available.

STANDARD PRESSURE & VACUUM SWITCHES

Standard Ratings 21 Amp, 2 HP @ 240 VAC
1 HP @ 120 VAC
Other ratings from 1 Amp to 25 Amp available.
Pressure Range: 1.5□H_20 to 125 psi in various field adjustable models.
Gold plated contacts available.
UL Recognized File E80254; CSA File LR69099



STYLE M
PRESSURE
PM11120E, SPDT
PM21120E, DPDT

VACUUM
VM11106E

1/8 NPT
SIZE: 2 1/4□X 2 1/4□
MOUNT: USE 9/16-18 NUT



STYLE R
PRESSURE
PR11120E, SPDT
PR21120E, DPDT

VACUUM
VR11106E

RADIAL SPOUT
SIZE: 2 1/4□X 2 1/4□
MOUNT: USE #4 SELF TAP SCREWS



STYLE T
PRESSURE
PT11120L, SPDT
PT21120L, DPDT

_____

CENTER SPOUT
SIZE: 2 1/4□X 2 1/4□
9/16□THREADED MOUNT

Other configurations available such as 1/8□NPT without mounting thread and center spout without mounting thread.

C SERIES PRINTED CIRCUIT BOARD MOUNT SWITCHES



6□WG to 65 PSIG
These Miniature Single Pole switches are used as Pressure, Vacuum or Differential Pressure Switches where moderate accuracy is sufficient.



Also available with 1/8□NPT
Sizes: □Low Profile□ models
1□Dia. x 1/2□H
Standard PC switch models
1□Dia. x 3/4□H



The Switches are also suitable for use as Air Switches in conjunction with Presair Air Actuators.

file E80254
1 amp @ 120VAC
(100,000 operations)



Minitrol
Wire lead Add-On for PC Board Mount Air, Pressure or Vacuum Switch. Made for applications where a PC Board is not used, but where small size is required.
Wire leads available in a variety of diameters.

SENSITIVE DIFFERENTIAL SWITCH



SENSITIVE PRESSURE SWITCH FOR PRESSURE, VACUUM OR DIFFERENTIAL SWITCHING.

(CAN BE USED AS A WATER LEVEL DETECTOR.)
1 5/8□L x 1 1/8□W x 1□H

These Sensitive Single Pole Switches can be used as Pressure or Vacuum Switches, (from .25 inch W.G. to 40 inch W.G.) or as Differential Pressure Switches. The switch can respond to rapid pulsing and the gold plated silver contacts will handle low level switching currents. file E80254. 1 Amp @ 120 VAC. (100,000 operations)

4 FUNCTION AIR SWITCH

MAGICTROL®
Sequencing Switch



MCG311A Green Cam
MCB311A Blue Cam



MRG311A Green Cam
MRB311A Blue Cam



MTG311A Green Cam
MTB311A Blue Cam

For actuation to 25' with our actuators.
Full set of installation diagrams and technical information available on request.



4-function switch with solenoid for actuation to 100□away by Hand Actuator or Foot Pedal. Use Presair momentary air switch TVM118C to actuate this unit.

Below are some of the most widely used sequences. Many other sequences are possible using the magictrol 4-function switch.

Contact Presair for help with your specific applications.

TYPICAL MAGICTROL SEQUENCES

Press	#1	#2	#3	#4	Application
Result	Off	Low Speed	Medium Speed	High Speed	Variable Speed D.C. Motor for Electric Vehicles by Switching Batteries
Result	Off	Low Heat	Medium Heat	High Heat	Heating Element Sequencing
Result	Off	Clockwise Rotation	Off	Counter Clockwise Rotation	Electric Motor Reversal (Waste Disposal Appliance)
Result	All Off	Reading Light Only	Reading & Room Light	Room Light Only	Patient Reading and Over Head (Room) Lights
Result	Low Speed Pump Only	High Speed Pump Only	Blower Only	High Speed Pump & Blower	Hydrotherapy SPA Pump (HI) Filtration-Pump (Low) Air Blower

3 FUNCTION AIR SWITCH



MTK211A
Black Cam

For use with 2 speed pumps or blowers OR 2 stage heating elements OR 2 stage battery supplies (switch from series to parallel) or many other uses.

The chart below shows a popular sequence. Many other variations are possible, using Presair 3-function switches, for many types of equipment.

Example: (1) OFF (2) LO SPEED (3) HI SPEED

2 SPEED PUMP	PUSH **1**	PUSH **2**	PUSH **3**
LOW SPEED	OFF	ON	OFF
HIGH SPEED	OFF	OFF	ON

ACTUATORS

ACTUATORS (AIR BUTTONS)

All Presair air buttons have sealed internal air bellows to prevent water from entering the air tube that connects the air button to the air switch.



B225
2.5□BEZEL DIA
Also available Flush B225F



B370
1.75□BEZEL DIA



B513
1.25□BEZEL DIA



B318
1.75□BEZEL DIA
Also available with
a MTG thread - B320

Above actuators are available in white, black and chrome. B225, B225F, B513 have buttons & bezels that are front replaceable. B513 available with long or short mounting thread. Other hard actuators available. Consult factory.

ACTUATORS (cont'd)

SOFT ACTUATORS (UV RESISTANT PVC)

U.S. Patent #5,962,826
Construction is leak resistant



B143 - Smooth Top
Available in long or short stem
B143R - Recessed top
Can use decal with a custom message or logo

2.8□DIA



B142WA-White
2.8□DIA
Also available with short mounting thread
B142WS



B414BA-BLACK
1.4□DIA
(Internal Bellow or B470-1 smaller bellow)



B141BA
1.8□DIA



B470A
1.25□DIA x 2□L
Internal Bellow with hard casing



B415BA
2.18□DIA



B465
1.07□DIA x .95 H
Available in colors
Std. is Black

ACTUATORS (cont'd)



Comes standard with black tubing.

B145 BA
1.55□DIA x 3/25□L

ELECTRIC TO PNEUMATIC/ELECTRIC CONVERTER BOX

UL LISTED
FILE E171193



To convert electrical equipment or an appliance to a device controlled by a shockproof, waterproof, explosion proof air button or air foot pedal by plugging the equipment into a receptacle box which in turn plugs into a standard electrical receptacle.

PBA-01 (Latching)
(Alt.Action)
PBM-01 (Momentary)

The Converter Box units are most often used in conjunction with Presair's B621BA or B721BA - hard plastic foot pedals with internal bellow. F800BA - soft plastic (PVC) foot pedals, or Presair's push buttons.

SAFE AIRE SINK DISPOSAL SWITCH



PBA-01 - Alternate Action (On/Off) Just plug the disposer into the air switch control box, then plug the control box into a dedicated grounded outlet and mount the button on the sink or countertop. Works with any disposer.



PBAHW-01 - Alternate Action (On/Off) Plug the air switch control box into a dedicated grounded outlet or hardwire (licensed electrician only according to local codes) and mount the button on the sink or countertop. Works with any disposer.

TUBING

PART NO.	ID.	OD	MATERIAL	COLOR	COMMENT
T1206C	.12	.24	PVC	CLEAR	Good all-purpose tube
T140040C	.10	.19	PVC	CLEAR	Smaller I.D. for greater sensitivity & distance

Other sizes, types, and colors available.

HARDWARE FOR TUBING

H419 AIRTUBE LOCKNUT PATENT #5.962.826
10326 AIRTUBE LOCKNUT- Black or White
HT120□ □T□FITTING to connect. .12 I.D. OR .10 I.D. PVC tubing
HS 120□ STRAIGHT IN LINE FITTING to connect. .12 I.D. OR .10 I.D. PVC TUBING. Bulkhead Connectors, In Line Air Bleeds, Air Tube Adaptors, Boot to cover pressure switches also available. Consult factory with your special requirements.

FOOT PEDALS

PNEUMATIC / ELECTRIC
(Glass filled polypropylene)

Pneumatic/Electric Foot Pedals contain an internal bellow which, when pressed, sends a pulse of air through a tube to our air switch up to 100 feet away from the foot pedal. The foot pedals are SHOCK-PROOF, EXPLOSION PROOF & WATERPROOF.



E621A
5.60□L x 4.10□W



E721A
3.35□DIA x 4.12□L

PNEUMATIC / ELECTRIC
SOFT (UV Resistant PVC)



F800
4□DIA x 5.25□L



B350 BA
3.50□DIA x .85□H

Foot pedals come standard with 8' tubing. Other lengths available. Our soft foot pedals are standard in black. Special colors may be ordered.

ELECTRIC FOOT PEDALS

Electric Footpedals are available with electrical ratings up to 25 amps, 1 HP @120 VAC, 2HP @ 240 VAC. Gold plated electrical contacts are available. Standard cable length is 8' with special lengths and connectors available.



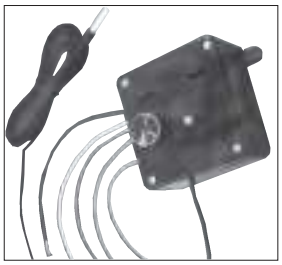
E621
5.60□L x 4.10□W



E721
3.35□DIA x 4.12□L

NOTE: Sizes given in this brochure are approximate. Specifications subject to change.

SOLID STATE THERMOSTAT



Sensor:
Thermistor encased in plastic
or stainless steel
Env. Dimensions 2 1/4□(57mm)
x 2 3/8 (60mm) x 1□H (25.4mm)

Configuration:
(A) P.C. Board (See envelope dimensions below)
(B) Encased with leads. (Consult Factory)

Range:
(A) Set at 106°F (41°C) +/- 2°F
(B) Units available with potentiometer (mounted on board or remote) temperature adjustment. Standard unit adjustment. From 40°F to 106°F (4.4°C - 41°C)
(C) Other adjustable ranges from 0°F (-18°C) to 220°F (105°C) are available. Consult Factory



LCD DIGITAL THERMOMETER

A thermometer with an LCD Readout in F□or C□is suitable for wet areas and is powered by a simple □AA□battery which is at the end of a 6' long cable which can be located where it can be easily changed by the user.

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