- SAFE
- **SHOCKPROOF**
- WATERPROOF
- **EXPLOSION PROOF**
- **ECONOMICAL**

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

ON OFF

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.

ON **OFF**

AIR SWITCHES (cont'd)

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" H₂0 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

PM21120E, DPD7

VM11106F

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. Title 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





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

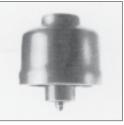


2.8" DIA





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** 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)

The Converter Box units are most PBM-01 (Momentary) 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 Good all-purpose tube
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.

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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.



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.



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^o or C^o 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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