

PRESSURE METERS • PRESSURE SWITCHES

Pressure Control Switch

II-PT-016

Adjustable SPDT pressure control switch



Full specification, variants, open points and ordering information. SPDT pressure controls with adjustable range and differential, in single and dual-pressure forms.

ENQUIRIESinfo@indianainstrutech.com

+91 75033 02545

+91 92893 62447

ISSUED

24 October 2026

Pressure Control Switch

Indiana catalogue ID **II-PT-016** Pressure Meters · Pressure switches

IDENTIFICATION

Product	Pressure Control Switch
Indiana catalogue ID	II-PT-016
Category	Pressure Meters · Pressure switches
Measuring principle	Adjustable SPDT pressure control switch
Model line	P502 – P530M, P830 series
Document	Specification · issued 24 October 2026

01 Electrical function

Contact	SPDT — single pole double throw
Terminal 1	Common terminal
Terminal 3	Close on pressure decrease
Terminal 5	Close on pressure increase
Non-inductive current	20 A at 125 V AC · 10 A at 250 V AC · 10 A at 24 V DC
Inductive full-load current	15 A at 125 V AC · 8 A at 250 V AC · 8 A at 24 V DC
Inductive inrush current	72 A at 125 V AC · 64 A at 24 V DC

02 General

Media	CFC, HCFC, HFC refrigerant, air, liquid and other non-corrosive media
Fluid temperature allowance	–10 °C to 100 °C
Pressure connection	M12 × 1.25, standard; 7/16-20 UNF flare nut or capillary tube available on request
Mounting	Mounting bracket supplied as standard; four M4 screws on the back of the controller; panel mounting also possible
Enclosure options	Drip-proof or explosion-proof enclosures available on several models
Model suffix E	English system connection
Model suffix S	Capillary tube

03 Variants and model selection (13)

P502 — P502 PRESSURE CONTROL SWITCH

Single setpoint, auto-reset, lowest range

Range	–0.5 to 2 bar
Differential	0.2 to 0.7 bar
Factory setting	OFF 1 bar / ON 0.5 bar
Max. bellows pressure	16.5 bar

P503 — P503 PRESSURE CONTROL SWITCH

Single setpoint, auto-reset

Range	–0.5 to 3 bar
Differential	0.35 to 1.5 bar
Factory setting	OFF 2 bar / ON 1 bar
Max. bellows pressure	16.5 bar

P506 — P506 PRESSURE CONTROL SWITCH

Single setpoint, auto-reset

Range	–0.5 to 6 bar
Differential	0.6 to 4 bar
Factory setting	OFF 3 bar / ON 2 bar
Max. bellows pressure	16.5 bar

P506M — P506M PRESSURE CONTROL SWITCH

Single setpoint, manual reset

Range	–0.5 to 6 bar
Differential	Repeat differential ≤1 bar
Factory setting	OFF 3 bar / manual reset
Max. bellows pressure	16.5 bar

P110 — P110 PRESSURE CONTROL SWITCH

Single setpoint, auto-reset

Range	1 to 10 bar
Differential	1 to 3 bar
Factory setting	OFF 6 bar / ON 5 bar
Max. bellows pressure	16.5 bar

P516 — P516 PRESSURE CONTROL SWITCH

Single setpoint, auto-reset

Range	5 to 16 bar
Differential	2 to 5 bar
Factory setting	OFF 10 bar / ON 8 bar
Max. bellows pressure	33 bar

P520 — P520 PRESSURE CONTROL SWITCH

Single setpoint, auto-reset

Range	5 to 20 bar
Differential	2 to 5 bar
Factory setting	OFF 16 bar / ON 14 bar
Max. bellows pressure	33 bar

P530D — P530D PRESSURE CONTROL SWITCH

Single setpoint, auto-reset

Range	5 to 30 bar
Differential	3 to 10 bar
Factory setting	OFF 20 bar / ON 15 bar
Max. bellows pressure	33 bar

P530 — P530 PRESSURE CONTROL SWITCH

Single setpoint, auto-reset, fixed differential

Range	8 to 30 bar
Differential	Fixed, 3 to 5 bar
Factory setting	OFF 20 bar / ON 15–17 bar
Max. bellows pressure	33 bar

P530M — P530M PRESSURE CONTROL SWITCH

Single setpoint, manual reset

Range	8 to 30 bar
Differential	Repeat differential ≤ 5 bar
Factory setting	OFF 20 bar / manual reset
Max. bellows pressure	33 bar

P830 — P830 DUAL-PRESSURE CONTROL SWITCH

Low-side and high-side setpoints, both auto-reset

Low side range	-0.5 to 6 bar
Low side differential	0.6 to 4 bar
Low side factory setting	OFF 3 bar / ON 2 bar
Low side max. bellows pressure	16.5 bar
High side range	8 to 30 bar
High side differential	Fixed, 3 to 5 bar
High side factory setting	OFF 20 bar / ON 15 bar
High side max. bellows pressure	33 bar

P830HM — P830HM DUAL-PRESSURE CONTROL SWITCH

Low side auto-reset, high side manual reset

Low side range	-0.5 to 6 bar
Low side differential	0.6 to 4 bar
Low side factory setting	OFF 3 bar / ON 2 bar
Low side max. bellows pressure	16.5 bar
High side range	8 to 30 bar
High side differential	Repeat differential ≤ 5 bar
High side factory setting	OFF 20 bar / manual reset
High side max. bellows pressure	33 bar

P830HLM — P830HLM DUAL-PRESSURE CONTROL SWITCH

Both low side and high side manual reset

Low side range	-0.5 to 6 bar
Low side differential	Repeat differential ≤ 1 bar
Low side factory setting	OFF 3 bar / manual reset
Low side max. bellows pressure	16.5 bar
High side range	8 to 30 bar
High side differential	Repeat differential ≤ 5 bar
High side factory setting	OFF 20 bar / manual reset
High side max. bellows pressure	33 bar

04 Installation

1. 01 Use two wrenches on threaded connections to prevent damage to the control's weld joints.
2. 02 Mount directly using the four M4 screws on the back of the controller, or panel-mount.

05 Applications and industries

APPLICATIONS

- Refrigeration and air-conditioning high- and low-pressure protection
- Compressed air system control
- Pump protection and non-corrosive liquid pressure control

INDUSTRIES

Refrigeration and HVAC

General industry

Food and cold chain

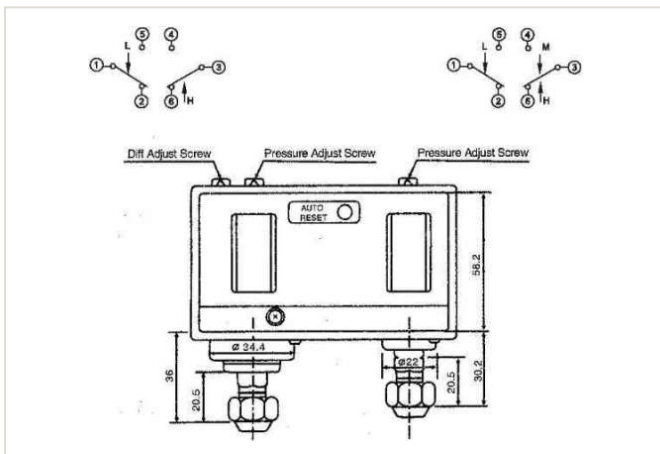
06 Views



PRIMARY VIEW Pressure control switch with adjustable DIFF. and RANGE dial window and brass process connection
Product photograph



ALTERNATE VIEW Brass process connection and mounting bracket of the pressure control switch
Product photograph



TECHNICAL Outline drawing from the product documentation
Product photograph



ALTERNATE VIEW Adjustable DIFF. and RANGE dial window of the pressure control switch
Product photograph

07 Ordering

Quote reference	II-PT-016
Model / variant options	P502 · P503 · P506 · P506M · P110 · P516 · P520 · P530D · P530 · P530M · P830 · P830HM · P830HLM
Lead time, terms, documentation	Confirmed in the quotation

TO PREPARE A QUOTATION WE NEED

- Setpoint and differential required
- Single or dual pressure

- Automatic or manual reset
- Medium and its temperature
- Pressure connection type
- Enclosure — standard, drip-proof or explosion-proof
- Switching load — voltage, current and whether inductive

TELEPHONE

+91 75033 02545
+91 92893 62447

EMAIL

info@indianainstrutech.com

QUOTATION

List the product, ID and quantity; add process conditions. We reply with a quotation.

CONFIRM BEFORE ORDERING

- Confirm the enclosure type, pressure connection and whether a manual-reset version is required for the duty.

INDIANA INSTRUTECH · Pressure control switches — range and electrical data Values are reproduced from the source documentation as stated there; where a source gives two different values for the same property, both are shown with their source. Unstated values are listed under “Open points”. This document is not a certificate, and no approval, certification or hazardous-area suitability is implied. INDIANA SALES (INDIANA INSTRUTECH) · info@indianainstrutech.com · +91 75033 02545 · +91 92893 62447 · issued 24 October 2026.