

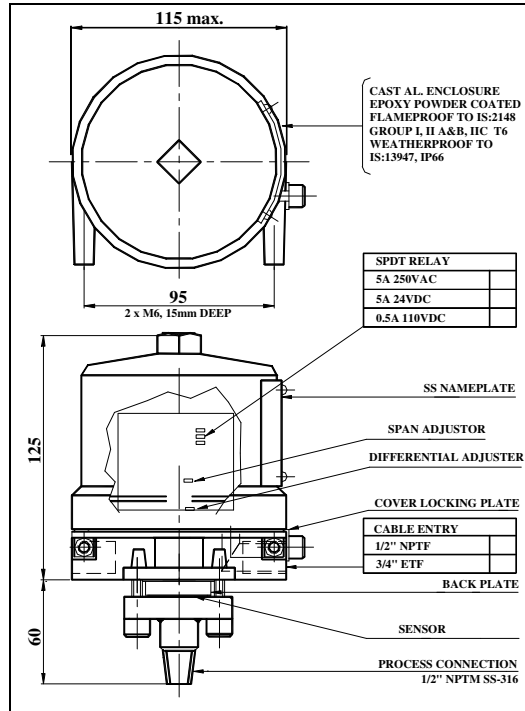


# DAG ELECTRONIC SWITCH

These Pressure switch (Suffixed E) devices based on Strain Gauge Technology are developed for Pressure Switch applications that involve measurement. The Switch is calibrated and temperature compensated.

**DAG** Pressure switch carries a Relay which gives (**NO-NC-COM**) change-over contacts. Turning in the Electronic adjuster (from right to left) increases the pressure setting & vice-versa. An Electronic adjustment is provided to facilitate Differential adjustment. **Calibration** has to be done against a Pressure gauge / Manometer

The standard switch has IP66 Cast Aluminium enclosure. / Flameproof to Gr.IIA & IIB, T6, 1/4"NPTF Process Connection, 3/4"ETF single cable entry & SPDT Relay.



## Model decoding

<b>FLP/</b>	: Flameproof & Weatherproof Enclosure
<b>WP/</b>	: Weatherproof Enclosure
<b>E-2</b>	: Ranges upto 6 kg/cm <sup>2</sup>
<b>E-2H</b>	: Ranges upto 25 kg/cm <sup>2</sup>
<b>E-2HP</b>	: Ranges upto 40 kg/cm <sup>2</sup>
<b>E-2VHP</b>	: Ranges beyond 40 kg/cm <sup>2</sup>
<b>E-3</b>	: Ranges upto 6000 mm WC
<b>E-4</b>	: Ranges upto 400 mm WC
<b>C</b>	: ± Compound Range
<b>V</b>	: Vacuum
<b>D</b>	: Adjustable Differential

<b>Example</b>	: FLP/E-2H
	: Flameproof & Weatherproof Enclosure
	: Electronic Switch
	: 25 kg/cm <sup>2</sup> Range, Over range 150% FSR

## Specifications

**Standard Ranges ( kg/cm<sup>2</sup> )** : ±1, 0-0.35, 0-1, 0-2, 0-3.5, 0-4, 0-6, 0-7, 0-10, 0-14, 0-16, 0-20, 0-21, 0-35, 0-40, 0-60, 0-70, 0-150, 0-200, 0-250, 0-300, 0-350

**Clean & Dry Gases (mm WC)** : ± 10, 25, 50, 100, 200, 300, 500, 750, 1000, 2000, 2500, 3000

Non corrosive, non ionic gases that will not adversely affect Thermoplastic / Aluminium / Silicon gel

**Enclosure** : Cast Aluminium, Epoxy Powder Coated (SS/MS optional)  
Flameproof to IS:2148, Gr.IIA & IIB or Gr.IIC, Temp. Class T6  
Weatherproof to IS:13947, IP65, IP66

**Mounting** : Direct / Wall / 2" Yoke

**Supply** : 24 VDC OR 230VAC

**Relay** : SPDT Upto 5A, 15A 250VAC / 5A 24VDC / 0.5A 110VDC

**Differential** : Fixed / Adjustable between 2% to 10%

**Accuracy** : ± 1% , ± 2%

**Repeatability** : ± 1% , ± 2%

**Overrange** : 150% FSR

**Temperature** : 80°C

**Process Conn.** : 1/4"NPTF, 1/2"NPTM/F/BSPM, NB25, NB40, NB50 Flanged SS-316

**Cable Entry** : 3/4"ETF, 1/2"NPTF (Others through adapter)

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Manufacturers of Pressure, Level, Flow, Temperature Switches & Pressure, Air Flow Transmitters

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# DAG ELECTRONIC PRESSURE SWITCH

## INSTALLATION, OPERATION & MAINTENANCE MANUAL

Note : Proper installation and operation is essential for lifelong service of the pressure switch.

- 1 Check up the correct tag number of the pressure switch to be installed.
- 2 With a test gauge confirm pressure setting and lock it with the locknut provided.
- 3 We strongly recommend calibration of pressure switch against a gauge, since indicating scale leaves a greater margin of error.
- 4 Install upright on a firm and non-vibrating panel, wall, surface or 2" yoke. It should be free from any tension of pressure pipe, tubing and cable connection. Mount preferably through an isolation valve. On request yoke / 2" mounting accessories and cable glands will be provided.
- 5 Before connecting flush tubing or piping from any dirt or dust.
- 6 For switches having PTFE / PP lined connections, do not use excess tightening force.
- 7 Apply a thin film of grease on the threaded joint to avoid cheesing.
- 8 Checkup loop for continuity, polarity and any wiring defects.
- 9 Checkup pressure switch for the end use and secure the cover gasket.
- 10 Proper cabling is necessary to meet weatherproof and flameproofness.
- 11 If there are chances of sludge, scale formation it is advisable to clean process connection periodically or use appropriate filters.
- 12 Dissipate any pressure surges using dampers or snubbers.
- 13 Pressure switches are passive devices and hence can be used in intrinsically safe circuits with use of proper zenner barriers.
- 14 Isolate electrically before opening the enclosure.
- 15 Keep spares in Weatherproof indoor conditions.
- 16 NO-NC-COM to be connected to Three wire terminal thus marked.
- 17 For Electronic Pressure Switch 24VDC is to be connected to 2 wire terminal thus marked.

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