

C6045D

GAS/ AIR PRESSURE SWITCH

SPECIFICATION / INSTRUCTION SHEET



APPLICATION

The C6045D gas and air pressure switch can be used in positive pressure or differential pressure systems to indicate changes in pressure relative to a set point.

FEATURES

- Switch position indicator.
- Can be used in positive pressure or differential pressure applications.
- Set point and switch position indicators visible from outside.
- All models incorporate a single pole, double throw snap acting MICRO SWITCH.

SPECIFICATIONS

Model

C6045D gas/air pressure switch.

Ambient temperature

Minimum: -10 C/14 F

Maximum: 70 C/158 F

Connections:

High pressure connection: 1/4" ISO 7/1 internal thread

Low pressure or vent connection: 1/8" ISO 7/1 female tapping.

High pressure tap point: 9 mm dia

Electrical rating

Voltage: 220/240 Vac

Full load: 2.0 A

Locked motor: 12.0 A

Resistive: 10.0 A

Enclosure

IP 40

Maximum pressure

Scale range (mbar)	Maximum pressure (mbar)	
	Without loss of accuracy	Without device failure
0.2 ... 3	100	200
1 ... 10	100	200
5 ... 50	200	400
15 ... 150	300	600

Pressure rating

Scale range (mbar)	Differential		Sensed medium	Automatic recycling
	Low scale	High scale		
0.2 ... 3*	0.3	0.5	Air and combustion products	Yes
1 ... 10	0.5	1	Air and combustion products. Combustible gas	Yes
5 ... 50	1.2	2.5	Air and combustion products. Combustible gas	Yes
15 ... 150	3.5	10	Air and combustion products. Combustible gas	Yes

* Differential is additive

Accessories

Mounting bracket, order number 45.002.208-001

INSTALLATION

CAUTION

Installer must be a trained, experienced serviceman.

Disconnect power supply before beginning installation.

Perform all required checkout tests after installation is completed.

Connection

The bleed fitting is tapped $\frac{1}{8}$ " ISO 7/1 female. In differential pressure control applications, the lower pressure should be connected to the vent fitting. (fig. 1.) In applications using combustible gases, the vent tapping should be connected to the combustion chamber.

Mounting

The C6045 has an hexagonal fitting tapped $\frac{1}{4}$ " ISO 7/1 female, which is the high pressure connection in differential applications. The C6045 can be mounted up to 90° from the horizontal position.

CAUTION

For types with ranges 0.2 ... 3 mbar and range 1 ... 10 mbar the full range can only be used when mounted

within 20° from the horizontal position.

For all other positions the types with scale range 0.2 ... 3 mbar version may not be adjusted lower than 0.6 mbar and the types with scale range 1 ... 10 mbar may not be adjusted lower than 1.2 mbar.

Wiring

All wiring must comply with applicable national requirements. For wiring purposes a Pg 13.5 conduit connector is provided. An earth screw is located inside the cover.

SETTING AND ADJUSTMENT

Pressure set point adjustment

Remove the cover and turn the pressure adjustment screw toward "+" to increase pressure setting and toward "-" to decrease pressure setting.

OPERATION AND CHECKOUT

Operation

The C6045 is equipped with SPDT switching. Therefore when a control action occurs an annunciating action such as energizing an alarm can simultaneous be performed. The C6045 automatic recycle type may be used for either High limit or Low limit applications.

IMPORTANT

Systems vary, so carefully study each application. The following outline is a guide for a typical low limit flame safe guard application using a manual reset switch.

Start up

- Set cut off pressure on numerical scale indicator by adjusting the screw. (see fig. 2.)
- Open main gas supply line. Actuate manual reset lever until switch remakes contact (common to normally open).
- Set the controller and limit switch to call for heat. A normal start up should occur.
- Allow system to operate through one complete cycle to ensure that all components function correctly.

Checking the control pressure

- Slowly close manual main valve with the burner in operation. Shut down should occur when the pressure drops to set point and the alarm should energize (if connected).
- Re open the manual main valve. Pressure should rise and exceed the set point value, the burner system should start up and the alarm turn off when the reset button is depressed.

NOTE: For more accurate setting use pressure measurement with manometer.

Dimensions

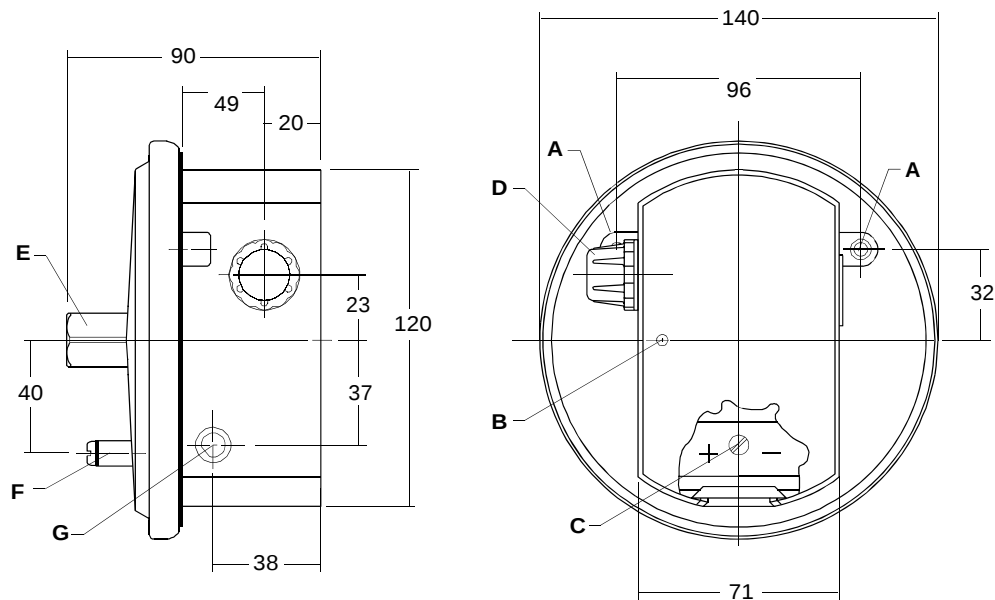


Fig. 1.

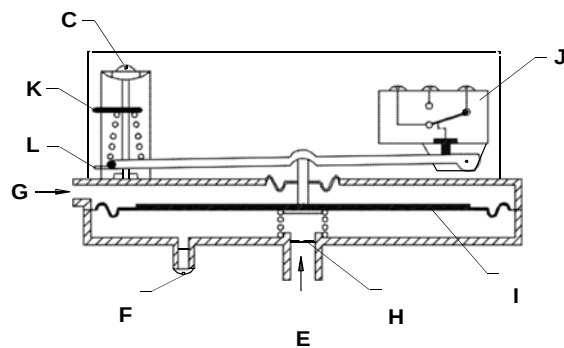


Fig. 2.

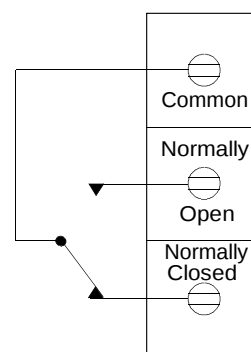


Fig. 3. Wiring connections

LEGENDA

- A - Mounting holes for bracket
- B - Cover screw
- C - Pressure adjustment screw
- D - Pg 13.5 conduit
- E - Positive pressure connection/high pressure inlet
- F - High pressure tapping/test pressure inlet
- G - Venting or differential connection/low pressure inlet
- H - Leak limiting orifice
- I - Diaphragm
- J - SPDT micro switch
- K - Set point indicator
- L - Switch position indicator

STANDARDS AND APPROVALS


THE POWER OF CONNECTED

**EU – Declaration of Conformity**

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Branding	Honeywell		
Product	Gas Pressure sensing device		
Type & Models	C6045 series		
Product-ID-Number	CE-0063AR3085/2		
EU-Acts	2009/142/EC 2016/426/EU 2014/35/EU 2014/30/EU	GAD GAR LVD EMC	Till April 21'st 2018 From April 21'st 2018 Immunity Emission conformity can only be verified in combination with the appliance
Standards	EN1854: 2010	Pressure sensing devices	
EU-Type Examination	(EU) 2016/426 Annex III paragraph 1 Kiwa Nederland B.V., Notified Body 0063		
Surveillance Procedure	(EU) 2016/426 Annex III paragraph 3 Kiwa Nederland B.V., Notified Body 0063		

In our capacity as manufacturer, we hereby declare:
Products labelled accordingly meet the requirements of the listed directives, regulations and standards. They correspond to the tested type samples. The production is subject to the stated surveillance procedure. This products comply with the substance restrictions of RoHS II, but they are not in the scope of the directive RoHS II (2011/65/EU). The corresponding operating/installation instructions can be downloaded from:
<https://products.ecc.emea.honeywell.com/europe/>

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Manager Standards and Approvals
J. Hepping

Honeywell Products & Solutions Sarl, Rolle, Switzerland

Honeywell

Europe:
Honeywell Products & Solutions Sarl
Z.A. La L'Pièce 16
1180 Rolle
Switzerland

MU1R9007 1712RB-NE