

# G-TRAN Series Pressure Switch Unit [SAU]

A pressure sensor unit that is adopting a semiconductor type thin-film element. By this can measure near to the atmospheric pressure (Gauge pressure : -100kPa~10kPa) with high accuracy. To be compatible for a high vacuum pressure SUS316L is adopted.



SAU

## Features

- ▶ Corresponding to the continuous use of high vacuum pressure process.: Semiconductor type thin-film element is adopted to be compatible for a high (SUS316L)
- ▶ Suitable for atmosphere pressure check: Pressure standard is corresponding with gauge pressure and a high accuracy measurement is capable
- ▶ Measurement output signal: Pressure is set to DC 0 to 5V Log out signal as a standard.
- ▶ Rotate Generator: Compatible in wide for DC12 to 24V
- ▶ Quick coupling standard: Adopting a NW16 port

## Applications

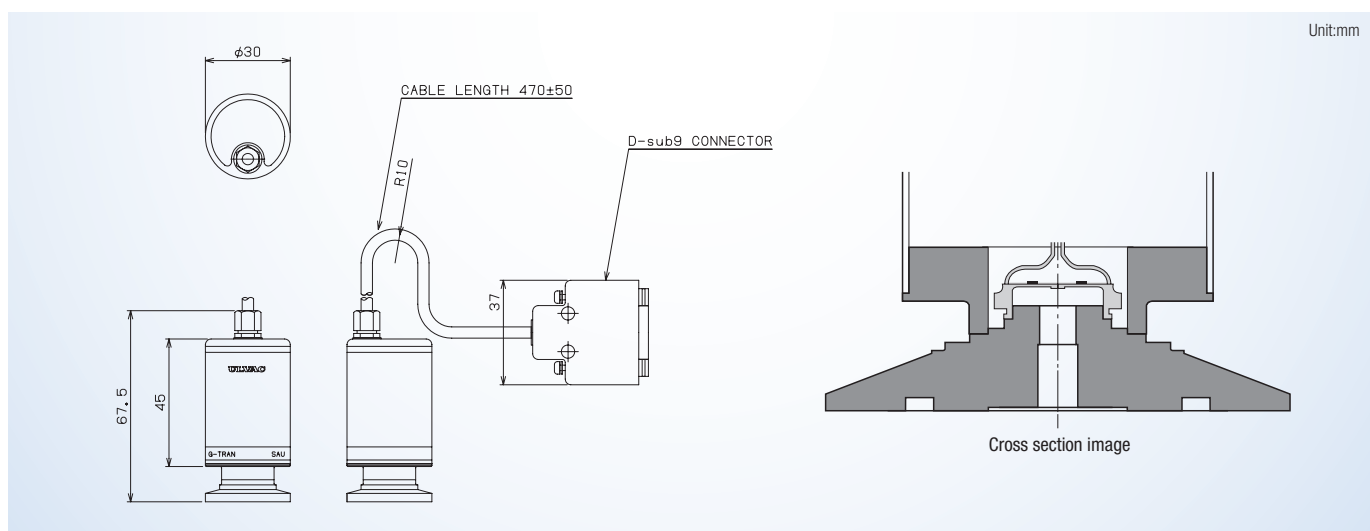
- ▶ To confirm the atmospheric pressure of PV, FPD, SEMICONDUCTOR system which contain high vacuum components.
- ▶ To confirm the atmospheric pressure of Industrial Vacuum Equipment like furnace systems which contain high vacuum components..
- ▶ To the vacuum system that require the high accuracy measurement of -100kPa~10kPa Gauge pressure (Absolute pressure :  $10^{+4}$ ~ $10^{+5}$ Pa )

# G-TRAN Series Pressure Switch Unit [SAU]

## Specification

Product name		Pressure switches
Model		SAU
reference pressure	Gauge pressure	
Measurable pressure range	-100~10kPa(Gauge pressure)	
Accuracy	±3%F.S.	
Temperature coefficient	Zero voltage	±0.2%F.S./°C
	Span voltage	±0.1%F.S./°C
Repeatability	±2%F.S.	
Sampling time	Approximately 5ms	
Value output	DC 0~5V	
Material of gas contacting	SUS316L	
Maximum pressure of sensor	200kPa(Gauge pressure) *Need separate measures as capacity to resist pressure, such as flange clamp	
Internal volume of sensor	787mm <sup>3</sup>	
Operating temperature range	0~50°C	
Operating humidity range	35~80% (not condensing)	
Storage temperature	-20~70°C	
IP rating	IP40	
Mounting direction of the gauge head	Free	
Power supply voltage	DC 12~24V±10%	
Input/output connector	D-sub 9-pin(M2.6mm screw)	
Weight	Approximately 140g	
Dimension W×D×H	φ30mm×67.5mm	
Flange type	NW16	
Accessories	Operation manual	

## Dimensions



ULVAC, Inc. Components Division

[www.ulvac.co.jp/en](http://www.ulvac.co.jp/en)

Overseas Sales in Japan TEL +81-467-89-2261

USA : ULVAC Technologies, Inc. TEL +1-978-686-7550  
 GERMANY : ULVAC GmbH TEL +49-89-960909-0  
 CHINA : ULVAC (SHANGHAI) Trading Co.,Ltd. TEL (86)21-6127-6610  
 TAIWAN : ULVAC TAIWAN, Inc. TEL +886-3-579-5688  
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 SINGAPORE : ULVAC SINGAPORE PTE LTD TEL +65-6542-2700

PHILIPPINES : ULVAC SINGAPORE PTE LTD Philippines Branch TEL +63-46-437-7700  
 VIETNAM : ULVAC SINGAPORE PTE LTD Vietnam Representative Office TEL +84-8-6299-8262  
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 THAILAND : ULVAC (THAILAND) LTD TEL +66-2-7388883  
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 INDIA : ULVAC, Inc., India Branch TEL +91-40-27007006

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