



Digital Fine Differential Pressure Sensor

MODEL GTI 135/145

Two kinds of Digital Fine Differential Pressure Sensor use high-voltage resistant micro-silicon resistance sensors and advanced digital technology to achieve highly sensitive and reliable differential pressure testing. Easy installation, segment code LCD display, clear and accurate readings, with analog output and switch functions. Widely used in HVAC, food, biopharmaceuticals, aerospace engineering, intelligent buildings, environmental monitoring, precision electronics manufacturing and other fields to realize the pressure of fans, fan pressure, filter resistance, furnace pressure, orifice pressure difference, combustion system pressure. It is an ideal choice for embedded differential pressure testing of clean rooms, biological safety cabinets, negative pressure vehicles and other devices.



Key Features & Benefits

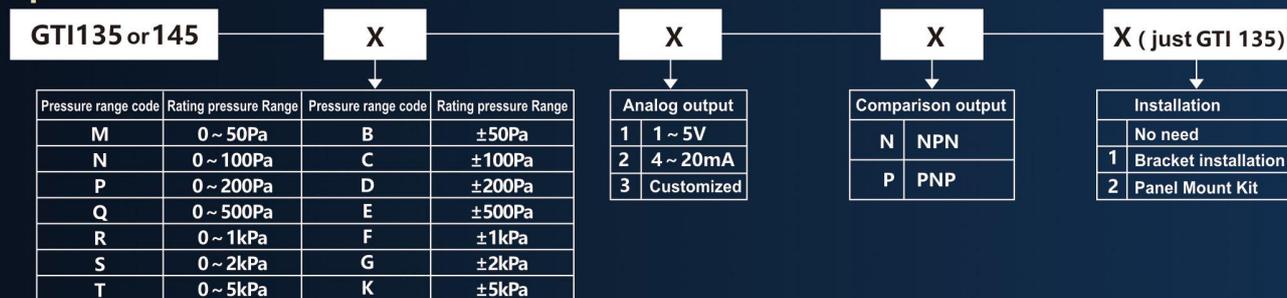
- Various differential pressure ranges, employs easily visible large segment LCD;
- Switch function (dual NPN or PNP open collector output);
- Analog output 1~5VDC or 4~20mA, customized one is possible;
- Differential pressure display, analog output, digital filter, key lock, peak and valley hold display and zero adjustment;
- Easy to install, wall-mounted or bracket-mounted two installation forms are options;
- Two sizes of 30x30mm and 24x48mm.



Range Accuracy

Differential Range		Testing Accuracy	Resolution (Pa)		Overload
			GTI135	GTI145	
0 ~ 50Pa	±50Pa	±(2%F.S.+1digit)@23°C	0.1		10kPa
0 ~ 100Pa	±100Pa				
0 ~ 200Pa	±200Pa	±(1.5%F.S.+1digit)@23°C	1		
0 ~ 500Pa	±500Pa				
0 ~ 1kPa	±1kPa	±(1%F.S.+1digit)@23°C	10		20kPa
0 ~ 2kPa	±2kPa				
0 ~ 5kPa	±5kPa				

Options



Specifications

	GTI 135	GTI 145
Measured gas	Non-corrosive gas ,such as dry air , nitrogen(not including water or dust)	
Display	4-digit segment code LCD screen	
Pressure display	Up to four digits can be displayed	
Pressure unit	Pa, kPa	Pa
Alarm output	OUT1/OUT2	
Zero Adjustment method	Manual Zero	
Analog Output	4-20mA/1-5V(option)or special customization	
Comparator out	NPN or PNP (option)	
Temperature Coefficient	$\pm 0.15\%F.S./^{\circ}C(500Pa)\pm 0.1\%F.S./^{\circ}C(500Pa)$	
Cycling time	200ms	
Power voltage	12V-24V DC ($\pm 10\%$)	
Current consumption	Less than 30mA@DC24V, Less than 50mA @ DC 12V	
Maximum consumption current	Comparator output NPN or PNP	
	Capacity: 30VDC,100mAmx.	
	Response time: Less than 5ms	
Moving average setting	0.2S,1s,2s,4s	
Operating temp. range	-0 - 60°C	
Storage temp. range	-10 - 70°C (no freezing allowed)	
Operating humid. range	35 - 85%RH (with no condensation)	
Waterproof level	P40 waterproof test standard IEC60529	
Degree of contamination	IEC60664-2(Class 2)	
Connector sizes	M5 Female Screw	ϕ 3.5 Pagoda Joint
Case material	PC/ABS	
Dimensions	30x30x35mm	24x48x73mm
Installation	Wall Mount or Bracket	Elastic Buckle
Weight	Approx. 30g	Approx. 40g

Installation Methods And Sizes

GTI135 Wall Mount

Panel Mount Kit

Installation wall thickness 1~4mm

GTI 135 Bracket Mounting

Brackets can be made by yourself or optional

2-M3

2-M5 different pressure connector

Panel Kit Mounting Cutout Dimensions

GTI135 size

GTI145 Installation

Elastic Buckle

Installation wall thickness 1~3mm

GTI145 size

Panel Kit Mounting Cutout Dimensions

OUT

① Power Voltage +(12V~24VDC)
② Comparison output1
③ Comparison output2
④ Analog output
⑤ Power Voltage - (0V)

GTI PRECISION INSTRUMENT (SHENYANG) CO., LTD.

www.gti-test.com
www.gti-instruments.com

Office: No. 56-39 (2212), North Huanghe Avenue, Hanggu District, Shenyang, Liaoning Province,
P.R. China 110034 TEL: 024-81231386 E-mail: sales@gti-test.com

