

# WSA-P200A

## Digital Pirani Gauge

### Quick Reference



**Woosung Automa Co., LTD.**

## WSA-P200A [Specification / Optional]

### Specification

Content	Description
Display Range	1 mTorr ~ 20 Torr
Error Range	15%
Display	FND, LED
Operation	Front 8 button type
Calibration	User can calibrate by using SPAN & ZERO dial
Set Point	Dual Set Point(High/Low Set Value) Relay Contact
Data Gathering Cycle	200ms
Digital Output	12bit output of current vacuum level
Monitoring Program	RS232C data transfer to PC program
ADC	12Bit
Sensor Type	15mm O.D. (standard)
Sensor Cable	2 M (default length)
Power	20W, AC85 ~ 260V, 60/50Hz

### Optional

Content	Description
Sensor Cable	5m, 10m
Fitting	18mm O.D., ISO KF(NW16, NW25), CF
Gauge Adaptor(T)	NW25-15 phi Gauge Port-NW25 / Venting
Gauge Adaptor(1)	NW25- 15 phi Gauge Port / Venting

## WSA-P200A [Function]

### □ Front Panel

- ① Digital Display : LED display by 0.1 point
- ② Unit Change Key : Torr / Pascal
- ③ Set Point : Setting 2 set points for auto controlling
  - Set Point can be changed by using the following key : RNG, Up, Down, ENT
- ④ MODE : User defined type mode setting
- ⑤ Filament On/Off : ON key

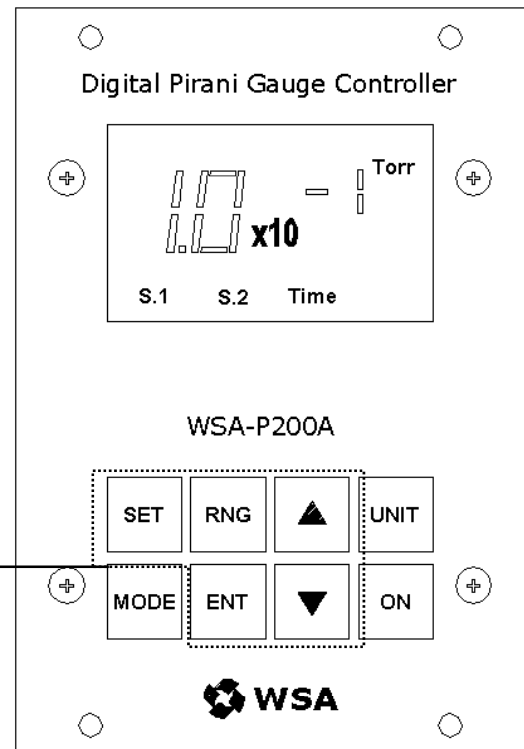
### □ Rear Panel

- ① PC monitoring by using RS232C
  - Monitoring Graph can be saved by BMP file
  - Monitoring Data can be saved by MS Excel format
- ② Digital Output Terminal : Real time output with 12bit data
- ③ Relay Terminal
  - Set Point Relay Output (SPDT) : 2 Point
- ④ User Calibration
  - SPAN : Calibration within 19~17 torr
  - ZERO : Display LO at  $9 \times 10^{-4}$  torr
- ⑤ Power : Free Volts (85 ~ 260V, 60/50Hz), On/Off Switch, and Fuse for safty

## WSA-P200A [Setting]

### □ Key Description

- ON : filament on/off.  
Starting display by press [ON] button
- UNIT : Changing Display Unit between Torr/Pa  
Initially Torr is default unit
- MODE : Optional function key for user setting
- SET : Setting the set point (S.1 S.2 moving)
- RNG : Moving the digit range
- ENT : Saving current setting
- UP/DOWN : Set point up and down

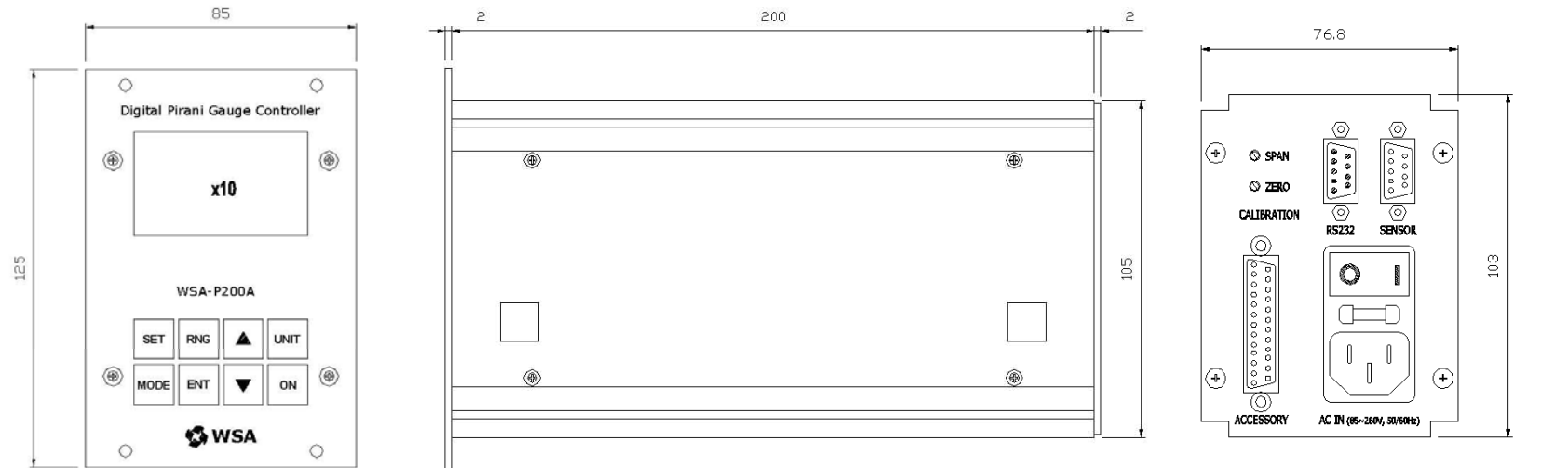


### □ Set Point

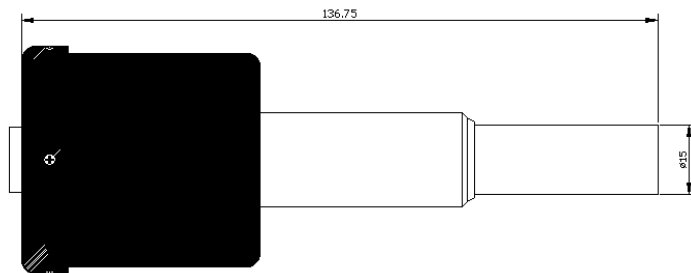
- Set Value Range : 19 ~ 0.001 torr (2500~0.133 Pa)
- By pressing SET button you can move SET1 mode, SET2 mode and Current Vacuum mode.  
S.1 LED display means SET1 mode and S.2 LED display means SET2 mode.
- [RNG] button can move the digit position (only works at SET mode)
- By using [UP]/[DOWN] button, you can change the value for setting your favorite SET point
- By pressing [ENT] button you can save the SET value

# Dimension & Sensor Fittings

## 1. Controller



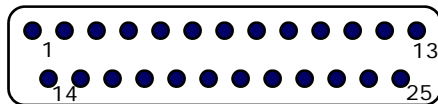
## 2. Sensor



- ❖ Supported Fittings I (without Adaptor)
  - 15mm O.D. (Standard)
- ❖ Supported Fittings II (by Adaptor)
  - 18mm O.D.
  - KF(NW) 16
  - CF Type(1.33 inch)
- ❖ Supported Fittings III
  - Gauge Adaptor(T): NW25-15Ø Gauge Port-NW25
  - Gauge Adaptor(1): NW25- 15Ø Gauge Port

# Assignment

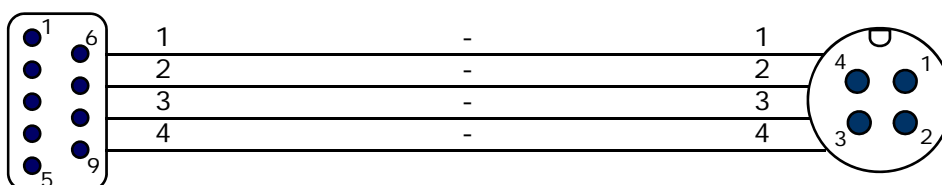
## □ Accessory Terminal



12bit digital output : **A.Bx10<sup>(+/-)c</sup>**

PIN NO	signal	PIN NO	signal
1	GND	14	Sign (+/-)
2	Digital output A1 (2 <sup>0</sup> )	15	Not Use
3	Digital output A2 (2 <sup>1</sup> )	16	Not Use
4	Digital output A3 (2 <sup>2</sup> )	17	Set 1 NO
5	Digital output A4 (2 <sup>3</sup> )	18	Set 1 COM
6	Digital output B1 (2 <sup>0</sup> )	19	Set 1 NC
7	Digital output B2 (2 <sup>1</sup> )	20	Set 2 NC
8	Digital output B3 (2 <sup>2</sup> )	21	Set 2 COM
9	Digital output B4 (2 <sup>3</sup> )	22	Set 2 NO
10	Digital output C1 (2 <sup>0</sup> )	23	Not Use
11	Digital output C2 (2 <sup>1</sup> )	24	GND
12	Digital output C3 (2 <sup>2</sup> )	25	GND
13	Digital output C4 (2 <sup>3</sup> )		

## □ Sensor Cable Pin Connection



# WSA (WooSung Automa Co. Ltd.,)

## □ Information

Address : 646-16, Seokpo-5 Ri, Jangan-Myeon, Hwaseong-Si, Kyoungki-Do, Korea

TEL : +82 31 358 9640

FAX : +82 31 358 9644

URL : <http://www.wsautoma.co.kr>

## □ Other product Line

### **2 stage oil rotary pump**

W2V Series : 100, 200, 400, 600, 800 (L/min)

SV Series : SV-145

**Diffusion pump, Booster pump, Valve, ....**

### **Vacuum Accessory**

O-ring, Oil Mist Trap, Bellows, ... , etc.