

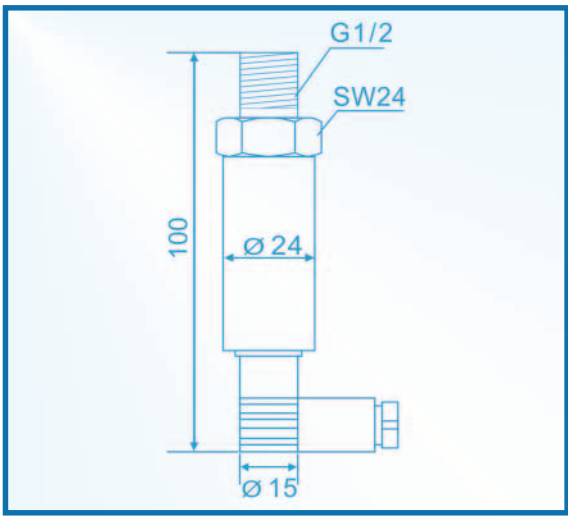
WP-9

Miniature Pressure Transmitter

825B098A

Features

- Measuring Range:
- Gauge Pr.: Max. 0÷20Mpa Min. 0÷1MPa
- Max. accuracy: $\pm 0.5\%FS$
- Mechanical installation: M20x1.5; G $\frac{1}{2}$; $\frac{1}{4}$ NPT
- Process connection material: 630/17-4PH SS
- Overload pressure: 2 Times of F.S
- Distruption pressure: 5 Times of F.S
- Typical long-term stability: $\pm 0.25\%FS$ per year
- Power supply: 12,5÷30Vdc (2-wires)
- Output signal: 4÷20mA
- Mechanical protection: with connector IP65
with linking cable IP67
- Noise: <2mv RMS
- Frequency band width: DC to 1 KHz (-3db)
- Operation temperature range: -40° ÷ +85°C
- Compensation temperature range: -0° ÷ +70°C
- Storage temperature range: -40° ÷ +100°C



- Stainless steel single unit integrated structure**
- Leakage-proof**
- Electromagnetic proof/ anti-jamming**
- High accuracy**
- Low cost**
- No silicon oil, no weld**
- Wide working temperature**

General

The sensor uses micro-melt technology, introduced into aviation application science and technology; the micro processing silicon varistor strain gauge melts on the steel diaphragm by high temperature glass. The glass adherence craft has avoided the temperature, humidity, machinery fatigue and medium to the glue water and material influence, and then improved the sensor long-term stability in the industry ambient, meanwhile also avoided the sensor p-N that appeared in the traditional micro machining operation manufacture craft process the effect phenomenon.

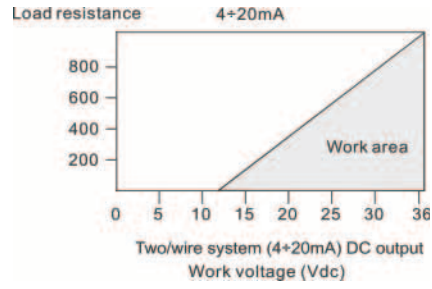
Applications

WP-9 series pressure cavity use stainless steel single unit integration structure but to become, so may guarantee for the better seal performance. The characteristics of product is no O-ring, no welded, no silicon oil or other organic, structural durability; the typical application are: pump and compressor, liquid pressure and pneumaticsystem, go-anywhere vehicle, energy and water processing system, pressure instrument, refrigeration equipment, agricultural machinery device, locomotive braking system

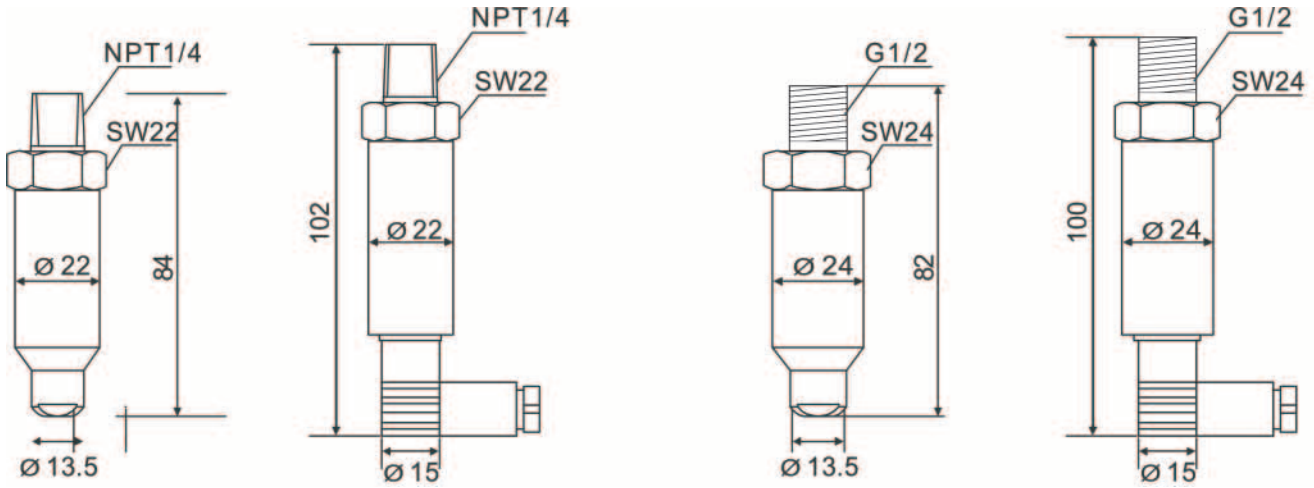


applied solution for the application

1. Load characteristics

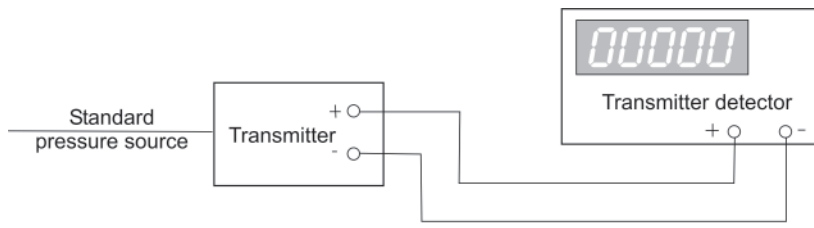


2. Outline dimension



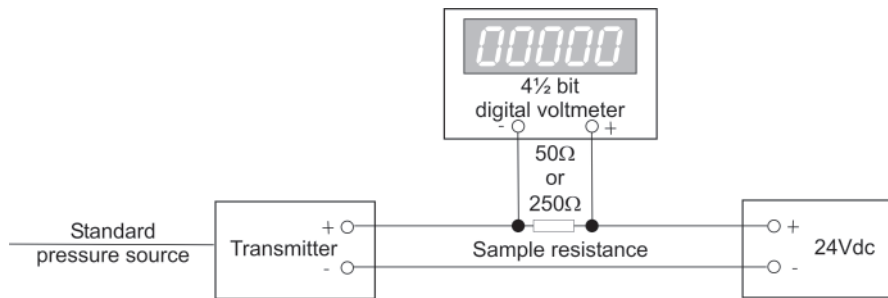
3. Wiring schedule diagram

A) With transmitter detector:



Transmitter regulate wiring diagram

B) With digital voltmeter:



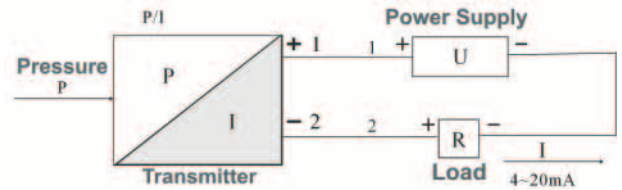
Transmitter check wiring drawing without transmitter detector

4. Installation

Wiring

Plastic connector connections, see the table 1. Cable connections, see the table 2

Definition of Pins for Plug-in		Definition of Wiring Connection for Cable	
PINS	2-WIRED	LEAD	2-WIRED
1	Power + = +V	Black	Power + = +V
2	Power - = 0V	Red	Power - = 0V
3	Blank	White	Blank



Basic requirement of the installation and operation

- May direct installs on the measuring point (any angle), if connect port size is not in correspondence with field connect port, is possible to use self-made adaptor connector.
- Try to install on the field in which the temperature gradient variation is small, at the same time, avoid strong vibration and impulse
- When on outside of the room install, as much as possible, put into the protection box, avoid sun light straight emit and rain pour, so that keep transmitter property stabilization and to improve transmitter life
- When measure steam or other high temperature medium, temperature limit should not be trepassed. When necessary, put lead pressure pipe or other cold-off device connection.
- Pressure cut-off valve must be installed between the transmitter and medium, so as to maintain, repair and prevent the take pressure port be stop up which affect the measurement accuracy. When the pressure undulation scope is big a pressure buffer device must be installed.

5. Order code

WP-9 Compact transmitter										
Code		Certification								
S		None								
Code		Process connection material								
1		Stainless Steel 630/17-4PH								
Code		Process connection								
N		Screw Thread M 20×1.5 (Ø10mm hole)								
P		Screw Thread ¼NPT								
R		Screw Thread G½" (Ø10mm hole)								
Y		Special								
Code		Sealed material								
1F		Fluorin Rubber: FPM (Viton)								
2F		Butyl Rubber: IIR								
Code		Output								
2		4-20mA 2-wires								
Code		Display								
A		None								
Code		Accuracy								
05		±0,5%								
10		±10%								
Code		Measure range								
xxx		Please see "WP-9 Standard Range Table" series pressure transmitters								
Code		Measured pressure								
G		Gauge Pressure								
Code		Version								
A		With linking cable; IP67								
X		With connector; IP65								
WP-9	S	1	R	1F	2	A	05	G19	G	X

WP-9

6. WP-9 Standard Range Table

Gauge	Measuring Range	Adjustment Range	Overload pressure
G17	0÷1.0MPa	0.4÷1.0MPa	2,0MPa
G18	0÷1.6MPa	0.64÷2.0MPa	3,2MPa
G19	0÷2.0MPa	0.8÷2.0MPa	4,0MPa
G20	0÷2.5MPa	1.0÷3.5MPa	5.0MPa
G21	0÷4.0MPa	1.6÷4.0MPa	8.0MPa
G22	0÷6.0MPa	2.4÷7.0MPa	12.0MPa
G23	0÷10MPa	4.0÷10MPa	20,0MPa
G24	0÷20MPa	8.0÷20MPa	40,0MPa

WP-9 Warranty

Products supplied by SGM LEKTRA are guaranteed for a period of 12 (twelve) months from delivery date according to the conditions specified in our sale conditions document. SGM LEKTRA can choose to repair or replace the Product. If the Product is repaired it will maintain the original term of guarantee, whereas if the Product is replaced it will have 12 (twelve) months of guarantee. The warranty will be null if the Client modifies, repair or uses the Products for other purposes than the normal conditions foreseen by instructions or Contract. In no circumstances shall SGM LEKTRA be liable for direct, indirect or consequential or other loss or damage whether caused by negligence on the part of the company or its employees or otherwise howsoever arising out of defective goods.

WP-9 Factory test certificate

In conformity to the company and check procedure I certify that the equipment:

WP-9 part nb.

is conform to the technical requirements on Technical Data and it is made in conformity to the SGM-LEKTRA procedure

Quality Control Manager:

Production and check date:



SGM LEKTRA s.r.l.

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