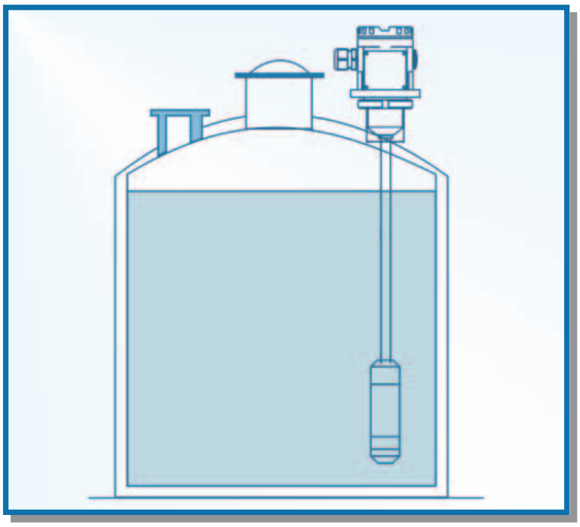
WP-L

Hydrostatic head level transmitter

825B091C

Features

- Power supply: 12,5÷36Vdc (2-wired)
- Measuring Range: 0÷100m (max.)
- Output: 4÷20mA
- Overload Capacity: 1.5 Times of F.S
- Max. accuracy: ±0.1%FS
- Typical long-term stability: ±0.1%FS per year
- Operation Temperature: -20° ÷ +70°C



- ***2-wired 4÷20mA transmitter***
- ***Direct Installation, Cable type and Rod type Version***
- ***Accuracy: max. ±0.1% F.S.***

General

WP-L Series Universal Static Level Transmitters adopt advanced dry-type ceramic sensors. Their various constructions, materials and transmitter types contribute greatly to the good adaptability.
Stability: high sensing ability and long-term stability.
Good Reliability: without any mechanical driving elements or mechanincal abrasion or malfunction.
Excellent Antijamming Performance, water proof; dust proof; explosion proof; corrosion proof and anti-acid.
Wide Range of Applicability wide range of constructions, process connections, and materials, suitable for various circumstance. Convenient Installation and Reliable Operation, its multi installation modes are optional for user's installation and opeation.

1. WP-LD

1.1. Power Supply and Output Signals

WP-LD series pressure transmitters are powered by 24Vdc, and as for 2-wired transmitters with output of 4÷20mA, they can be normally operated during range of 5mA-30mA DC.

1.2. Technical Specifications

Material of Contact Part with Measured Medium:

Process Connection: 1Gr18Ni9Ti

Sealed Material: Flourin Rubber, FPM (Viton)
Polyvinyl-4F: PTFE (Teflon)
Fully Sealed Welding

1.3. Adjustment & Calibration for "Zero" and Full-scale Output

Local adjustment with the "Zero" and "Span" trimmers in the housing.

1.4. Installation and Operation

WP-LD series pressure transmitters can be installed on pressure joint of pipeline. A cut-off valve should be added between pressure joint and pipeline to make it easier for installation and debugging. The impact on "Zero" from the installation position can be well adjusted and calibrated.

1.5. Technical Specifications

Measuring Range: 0÷100m

Accuracy: Typical: ±0.1FS; ±0.2FS; ±0.5%FS (Including non-linearity, sluggishness and repetition)

Long-term Stability: Typical: ±0.1%FS per year

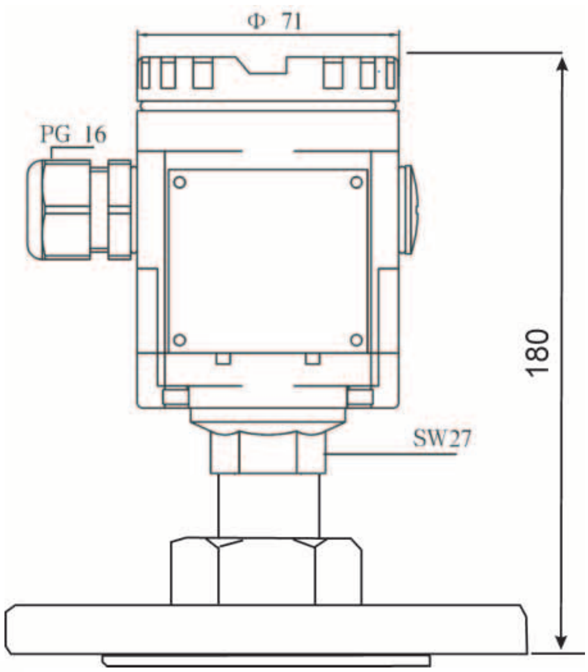
Tolerant Temperature: Normal Operation Temperature: -20°÷ +70°C
Membrane: -20°÷ +80°C (even up to 130°C at a short time)
High & Low Temperature: -65°÷ +150°C; 10°÷ +200°C; 10°÷ +350°C

Storage Temperature: -20°÷ +80°C

Relative Humidity: 0÷95%RH

Process Connections: flange (default: DN50)

Protection Class: IP65



2. WP-LC

2.1. Power Supply and Output Signals

WP-LC series pressure transmitters are powered by 24Vdc, and as for 2-wired transmitters with output of 4÷20mA, they can be normally operated during range of 5mA-30mA DC.

2.2. Technical Specifications

Material of Contact Part with Measured Medium:

Bobweight: 1Gr18Ni9Ti

Sealed Material: Flourin Rubber, FPM (Viton)
Polyvinyl-4F: PTFE (Teflon)
Fully Sealed Welding

Gas-conducted Cable Material: Compound of Polyvinyl-4F (PTFE) and Butyl Rubber (IIR)

2.3. Adjustment & Calibration for “Zero” and Full-scale Output

Local adjustment with the “Zero” and “Span” trimmers in the housing.

2.4. Installation and Operation

WP-LC series pressure transmitters can be installed on pressure joint of pipeline. A cut-off valve should be added between pressure joint and pipepline to make it easier for installation and debugging. The impact on “Zero” from the installation position can be well adjusted and calibrated.

2.5. Technical Specifications

Measuring Range: 0÷100m

Accuracy: Typical: ±0.1FS; ±0.2FS; ±0.5%FS (Including non-linearity, sluggishness and repetition)

Long-term Stability: Typical: ±0.1%FS per year

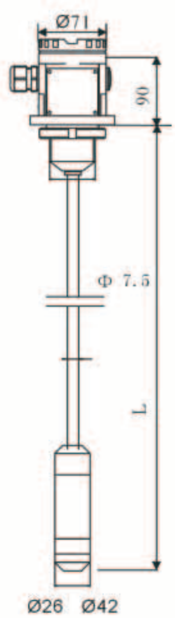
Tolerant Temperature: Normal Operation Temperature: -20°÷ +70°C
Membrane: -20°÷ +60°C

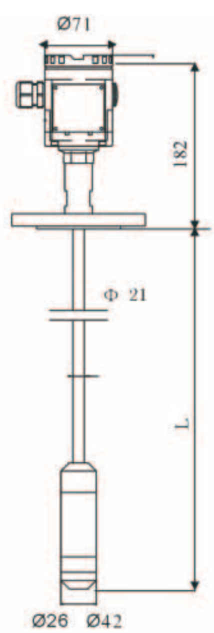
Storage Temperature: -40°÷ +80°C

Relative Humidity: 0÷95%RH

Process Connections: Screw Thread G1 1/2 or Flange (Default for DN20 , PN0.6)

Protection Class: IP65





3. WP-LR

3.1. Power Supply and Output Signals

WP-LR series pressure transmitters are powered by 24Vdc, and as for 2-wired transmitters with output of 4÷20mA, they can be normally operated during range of 5mA-30mA DC.

3.2. Technical Specifications

Material of Contact Part with Measured Medium:

Bobweight: 1Gr18Ni9Ti

Sealed Material: Flourin Rubber, FPM (Viton)
Polyvinyl-4F: PTFE (Teflon)
Fully Sealed Welding

Extension rod: 1Gr18Ni9Ti

3.3. Correzione e calibrazione dello Zero e dello Span

È possibile correggere o calibrare il campo di funzionamento dei sensori WP-L in un determinato range (vedi tabella) tramite gli appositi trimmer

3.4. Installazione

I trasmettitori WP-L possono essere installati in un punto di connessione che gli pemetta di rilevare correttamente la pressione sul fondo del serbatoio. È consigliabile l'abbinamento di una valvola di chiusura per facilitare le operazioni di installazione meccanica o di manutenzione. La deriva dello Zero causata dalla posizione d'installazione può essere facilmente eliminata tramite il trimmer di calibrazione dello Zero. Nel caso in cui si volesse calibrare lo Zero o lo Span occorre svitare la vite che blocca la copertura di protezione.

3.5. Technical Specifications

Measuring Range: 0÷4m (max.)

Accuracy: Typical: ±0.1FS; ±0.2FS; ±0.5%FS (Including non-linearity, sluggishness and repetition)

Long-term Stability: Typical: ±0.1%FS per year

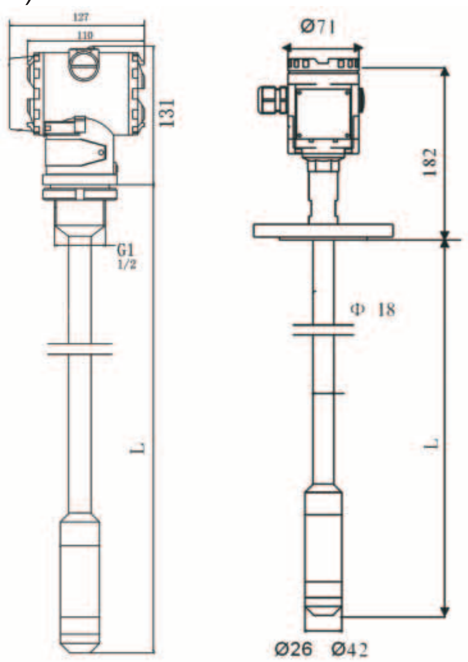
Tolerant Temperature: Normal Operation Temperature: -20°÷ +70°C
Membrane: -20°÷ +70°C (even up to 130°C at a short time)
High & Low Temperature: -65°÷ +150°C; 10°÷ +200°C; 10°÷ +350°C

Storage Temperature: -40°÷ +80°C

Relative Humidity: 0÷95%RH

Process Connections: Screw Thread G1 1/2 or Flange (Default for DN20 , PN6)

Protection Class: IP65



WP-L - Code table

WP-L	Pressure transmitter

Code	Version
C	Cable-type(C1 integrated, see Note 1)
D	Direct Installation
E	Miniature Direct Installation
R	Rod Type

Code	Certification
D	Explosion Safe Exd Ⅱ BT5 o Exd Ⅱ BT6
I	Intrisinc Safe Exia Ⅱ CT6 o Exib Ⅱ CT6
S	None

Code	Process connection material
1	Stainless Steel 316L
2	Stainless Steel 304
3	Stainless Steel 1Gr18Ni9Ti
9	Special

Code	Process connection
F	Flanged: for Cable-type and Rod-type DNxxx PN6; direct installation DNxxx PN16
T	Male Thread G½"
Y	Special

Code	Membrane type
A	Si-diffused sensor
B	High or Low Temperature: -65°÷+150°C;10°C÷200°C; 10°÷350°C
C	Ceramic Capacitance

Code	Sealed material
1F	Fluorin Rubber: FPM (Viton)
2f	Butyl Rubber: IIR

Code	Output
2	4÷20mA 2-wires
9	Special

Code	Display
A	None
B	100% linear
C	0÷100% Digital LCD
D	0÷100% Digital LED
Y	Special

Code	Accuracy
1	±0,1%
2	±0,2%
5	±0,5%
9	Special

Code	Bob-weight (only for cable type)
H	None
Y	Special
Z	Standard. Please provide detailed medium flow speed and density

Code	Extension length
xxx	Installation dimension only suitable for Cable type and Rod type

Code	Measure range
xxx	Please see "Standard Range Table of WP-8"series pressure transmitters

WP-L	C	S	1	F	A	1F	2	A	1	Z	10	G11

Note 1: Integrated: Adoption of imported sensor with stainless steel isolated membrane and high-performance amplifying circuit and encapsulation in one probe.
Note 2: the default Flange dimensions for Cable-type and Rod-type level transmitters are DN25, and default dimension for direct installation level transmitter is DN50. Please give us clear indication on your orders.
Note 3: the installation dimensions are only valid for cable-type or Rod-type level transmitters.
Note 4: cable type level transmitter adopts imported environment-protection materials with tolerant performance of abrasion, weak acid and low temperature.

WP-L - Standard ranges table

Gauge	Measuring Range	Adjustment Rangee	Overload		Capacitance	Si-diffused	High & Low Temperature
			Capacitance	Si-diff. or H.T.			
G03	0÷10KPa	4÷20KPa	0.6MPa	15KPa	N	Y	Y
G04	0÷16KPa	6.4÷20KPa	0.6MPa	25KPa	N	Y	Y
G05	0÷20KPa	8÷35KPa	0.6MPa	30KPa	N	Y	Y
G06	0÷25KPa	10÷35KPa	1.0MPa	40KPa	N	Y	Y
G07	0÷30KPa	12÷35KPa	1.0MPa	45KPa	N	Y	Y
G08	0÷35KPa	14÷35KPa	1.0MPa	55KPa	N	Y	Y
G09	0÷40KPa	16÷70KPa	1.0MPa	60KPa	N	Y	Y
G10	0÷60KPa	24÷70KPa	1.0MPa	90KPa	Y	Y	Y
G11	0÷100KPa	40÷100KPa	1.0MPa	150KPa	Y	Y	Y
G12	0÷160KPa	64÷200KPa	1.8MPa	250KPa	Y	Y	Y
G13	0÷200KPa	80÷200KPa	1.8MPa	300KPa	Y	Y	Y
G14	0÷250KPa	100÷350KPa	2.5MPa	400KPa	Y	Y	Y
G15	0÷400KPa	160÷700KPa	2.5MPa	600KPa	Y	Y	Y
G16	0÷600KPa	240÷700KPa	4.0MPa	1.0MPa	Y	Y	Y
G17	0÷1.0MPa	0.4÷1.0MPa	4.0MPa	1.5MPa	Y	Y	Y
Note: "N" means unavailable, "Y" means available.							

Special orders are all transmitters with membrane material of code A or B with pressure range below 20kPa and all transmitters with membrane material of code C with pressure range over 20MPa.

WP-L 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 mantein 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 consequiential 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-L Factory test certificate

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

WP-L .... 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: ....

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