

Technical Data

Power supply:	12÷30Vdc (2-wires)
Measuring range:	from 0÷0.4mH ₂ O to 0÷20mH ₂ O
Wetted part material:	PVC
Shielded cable material:	PU Ø7.5mm
Process connection:	Suspension cable type; mounting clamp (opt.)
Output:	4÷20mA
Overload capacity:	1.5 times of F.S.
Max. accuracy:	±0.5%F.S.
Stability:	> ±0.1%FS for year
Storage temperature:	-20° ÷ +70°C
Working temperature:	-10° ÷ +70°C
Temperature compensation:	-10° ÷ +80°C
Thermal shift:	0.02%F.S./°C
Wetted part protection:	IP68



- ☐ 2-wired 4÷20mA transmitter
- ☐ For wastewater even with sludge presence
- ☐ Accuracy: 0,5% FS

☐ 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.

☐ Factory test **certificate**

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

KWL..... Production and check date:

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:

KWL
Cable extension with
suspension mounting



KWL
With mounting clamp
(opt. accessory cod.835A001A)



General

The separation liquid absence between the membrane and the pressure sensor, “Dry-Pressure” measurement technology, allows to have overpressure superior technological performance, small thermal drift, high stability and accuracy.

The different possible configurations of the **KWL** level transmitter, make it suitable for most industrial sectors and in different operating conditions. For these characteristics **KWL** is ideal for the hydrostatic levels measurement in process automation.

1. KWL

1.1. Power supply and output signals

KWL series pressure transmitters are powered by 12÷30 Vdc, and as for 2-wired transmitters with output of 4÷20mA.

1.2. Technical specifications

Measuring range: from 0,4mH₂O (4kPa / 0,04bar) to 20mH₂O (200kPa / 2bar)

Accuracy: 0,5% FS

Typical long-term specification: < ±0.1%FS / Year

Relative humidity: 0÷95%RH

Atmosphere pressure : 86 ÷ 108KPa

Operation temperature:

Medium: -10°÷ 70°C

Storage: -20°÷ 80°C

Construction materials:

Diaphragm: ceramic Al₂O₃

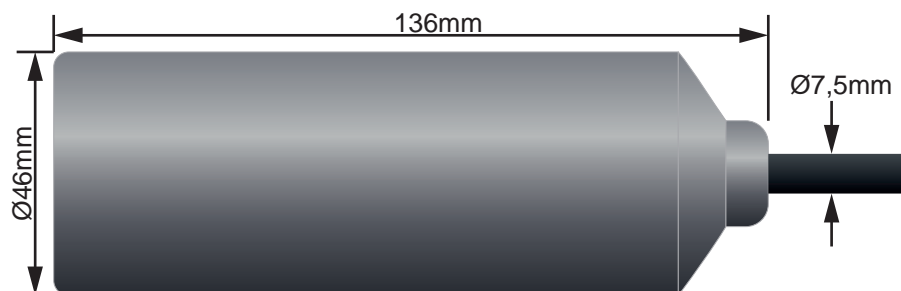
Sealed material: Fluorin Rubber FPM (Viton)

Cable: PU (polyurethane)

Immersed probe: PVC (Polyvinyl Chloride)

Process connection: Cable extension with suspension mounting, mounting clamp (opt. accessory cod.835A001A)

1.2. Mechanical dimensions



2. Startup

2.1. Installation

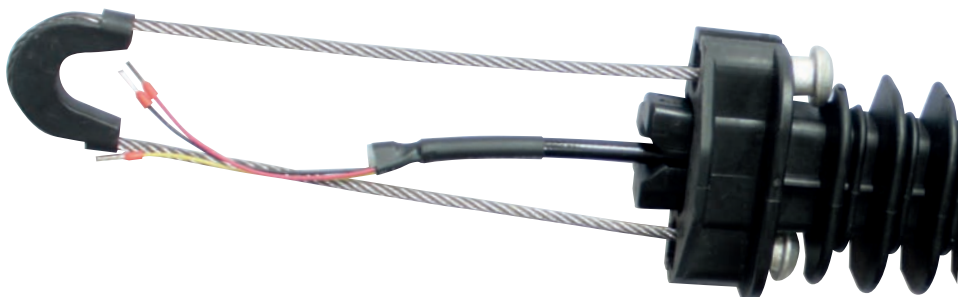
KWL_ series pressure transmitters can be installed on pressure joint of pipeline. A cut-off valve should be added between pressure joint and pipeline to make it easier for installation and debugging.

2.2 Available measuring range

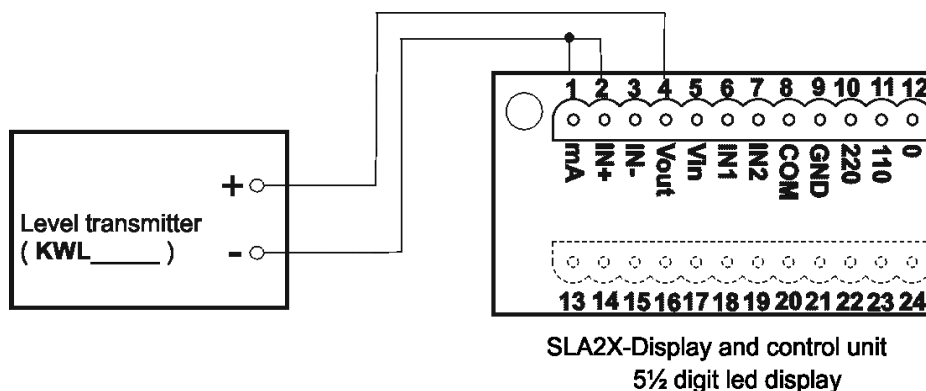
Measure range	
402	0 ÷ 4kPa (0 ÷ 0,04bar / 0 ÷ 0,4m H2O) gauge pressure
103	0 ÷ 10kPa (0 ÷ 0,1bar / 0 ÷ 1m H2O) gauge pressure
203	0 ÷ 20kPa (0 ÷ 0,2bar / 0 ÷ 2m H2O) gauge pressure
503	0 ÷ 50kPa (0 ÷ 0,5bar / 0 ÷ 5m H2O) gauge pressure
104	0 ÷ 100kPa (0 ÷ 1bar / 0 ÷ 10m H2O) gauge pressure
204	0 ÷ 200kPa (0 ÷ 2bar / 0 ÷ 20m H2O) gauge pressure

2.3 Electrical connections

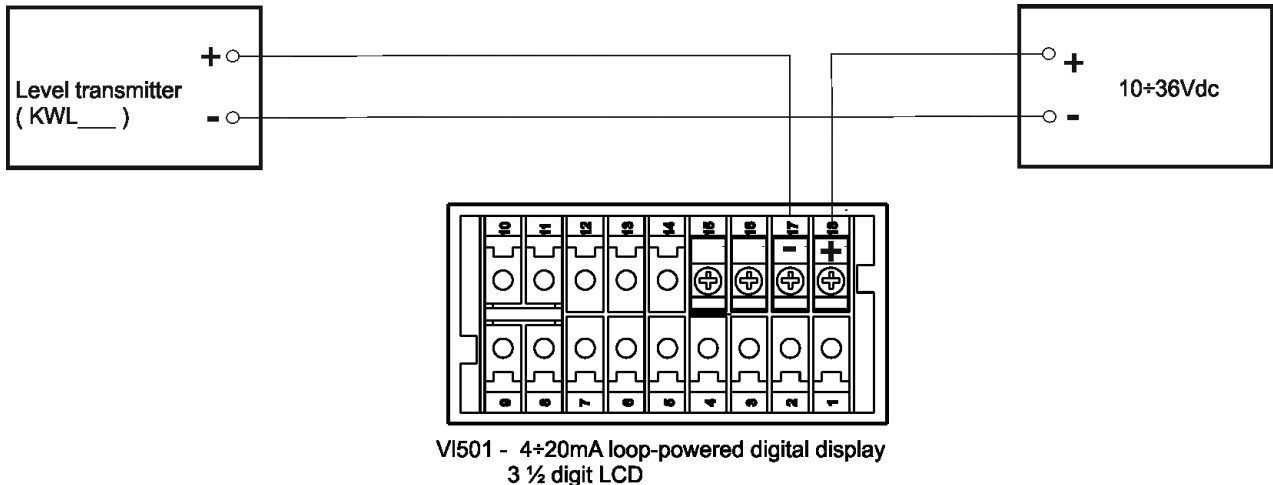
Functions	Wire
+24	Red
0V	Black
GND	Yellow/Green



2.3.1 System with display and control



2.3.2 Loop powered display two wires



3. Product codes

KWL Hydrostatic head level transmitter

Suitable in wastewater applications - IP68
Capacitance sensor - PU ø 7,5mm shielded cable
Operation temperature: - 10° ÷ +70°C
Power supply: 12÷30Vdc
Wire-loop connection (2-wire) - Output: 4÷20mA
Accuracy: ± 0,5% F.S.

Measure range	
402	0 ÷ 4kPa (0 ÷ 0,04bar / 0 ÷ 0,4m H2O) gauge pressure
103	0 ÷ 10kPa (0 ÷ 0,1bar / 0 ÷ 1m H2O) gauge pressure
203	0 ÷ 20kPa (0 ÷ 0,2bar / 0 ÷ 2m H2O) gauge pressure
503	0 ÷ 50kPa (0 ÷ 0,5bar / 0 ÷ 5m H2O) gauge pressure
104	0 ÷ 100kPa (0 ÷ 1bar / 0 ÷ 10m H2O) gauge pressure
204	0 ÷ 200kPa (0 ÷ 2bar / 0 ÷ 20m H2O) gauge pressure

Cable length	
502	5 m
103	10 m
153	15 m
253	25 m