

*Wide sensor range  
for hydraulic  
applications*



Flow



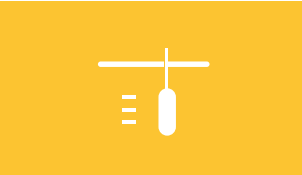
Level



Pressure

# Submersible Level Transmitter

SN420



## Features

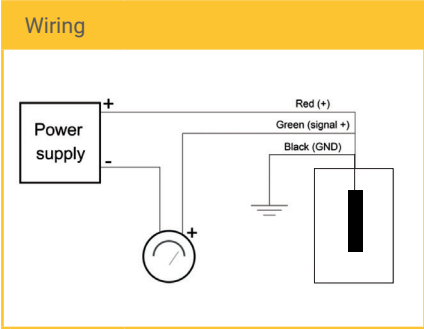
The 4/20mA submersible piezometric level probes or sensors are piezoresistive transmitters that monitor and measure, under differential pressure, stable or moving liquid levels.

- Measuring ranges: From 1 to 200 meters water column (m2HO)
- Accuracy of  $\pm 0.25\%$  of full scale (FSO).
- Stainless steel body and measuring cell.
- Temperature calibrated and compensated.
- Easy celan-up



- Hydrostatic level
- For tanks
- Ranges 2, 5, 10 m
- Analog output 4-20ma
- Atmospheric compensation micro tube

- Codes & references
- |          |          |
|----------|----------|
| 10002193 | SN420-2  |
| 10001787 | SN420-5  |
| 10001788 | SN420-10 |



| TECHNICAL DATA              |                                                                                                                       |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Pressure range              | 0-2, 0-5, or 0-10 m2HO (Standard models)                                                                              |
| Overpressure                | 1.5xFS                                                                                                                |
| Operating temperature range | -20°...70° C                                                                                                          |
| Output signal               | 4 / 20mA                                                                                                              |
| Power supply (Vs)           | 12V to 36V                                                                                                            |
| Accuracy                    | 0.25%FSO                                                                                                              |
| Load resistance             | <(Vs-12)/0.02A                                                                                                        |
| Insulation resistance       | 100Mohm - 50VDC                                                                                                       |
| Media compatibility         | All media compatible with 316L stainless steel                                                                        |
| Housing                     | 304 stainless steel                                                                                                   |
| Diaphragm                   | 316L stainless steel                                                                                                  |
| Oil Filling                 | Silicone oil                                                                                                          |
| Protection                  | IP68                                                                                                                  |
| Standard cable              | Shielded with internal capillary, Polyurethane sheath, 2 conductors 0.20 mm2, Ø 7.2 mm +/-0.15, weight 50 g per meter |
| Cable length                | 11.5...200m (more under request)                                                                                      |
| Net Weight                  | 225g approx. with 11.5 meters of cable                                                                                |

# Pressure transmitter

MBS



## Features

- The pressure transmitter is designed for use in air and water applications.
- Wetted parts of stainless steel (AISI 304).
- Output signals: 4-20 mA.
- RoHS conformity.

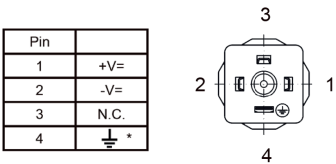


- Ceramic technology
- Relative pressure measuring
- Robust construction in stainless steel
- 2-wire current loop

### Codes & references

|          |            |
|----------|------------|
| 50013157 | MBS1900-10 |
| 50013158 | MBS1900-16 |
| 50014627 | MBS1900-25 |

### Control connections



## TECHNICAL DATA

|                              |                                                                               |
|------------------------------|-------------------------------------------------------------------------------|
| Pressure Range               | MBS1900-10 : 0...10 Bar<br>MBS1900-16 : 0...16 Bar<br>MBS1900-25 : 0...25 Bar |
| Overload Pressure            | 3xFS                                                                          |
| Burst Pressure               | 4xFS                                                                          |
| Output signal                | 4...20 mA                                                                     |
| Supply voltage               | 9...28 V= (polarity protected)                                                |
| Precision                    | ± 0,5% FS                                                                     |
| Hysteresis and repeatability | ± 0,1% FS                                                                     |
| Response time                | < 4 ms                                                                        |
| Wetted parts                 | Inox. 1.4301 (AISI 304)                                                       |
| Body                         | Inox. 1.4404 (AISI 316 L)                                                     |
| Sensor Element               | Piezoresistive                                                                |
| Temperature compensation     | Yes                                                                           |
| Vibration Stability          | IEC 60068-2-6, IEC 60068-2-24                                                 |
| Shock resistance             | 200 g. (1 ms.) IEC 60068-2-27                                                 |
| Connection                   | G 1/2"A (EN 837), 0...10/16 Bar<br>G 1/4"A (EN837), 0...25/40 Bar             |
| Recommended torque           | 20 Nm                                                                         |
| Connector                    | EN 175301-803-A, Pg9                                                          |
| Fluid temperature range      | 0...+80 °C                                                                    |
| Ambient temperature range    | -20...+80 °C                                                                  |
| Weight                       | 80 g                                                                          |
| Protection rating            | IP65 (with connector and joint)                                               |

# Accessories

## Level / Flow / Pressure

### SN

PROBE

Conductive probes for general use

REF: 10000159 - SNR  
REF: 10000160 - SNA



### SV

PROBE

Conductive rod probe

REF: 10000162 - SV



### BM

FLOAT SWITCH

Level float switch for wastewater

REF: 10000368 - BM05 (wastewater - 5m cable)



### SM

FLOAT SWITCH

Level float switch for clean water

REF: 50005213 - SM05 (5m cable)  
REF: 50015150 - SM10 (10m cable)



### PR

PRESSURE SWITCH

Mechanical pressure switch, G 1/4" F

REF: 50005520 - PR1 (0...4bar)  
REF: 50005521 - PR2 (4...10bar)



### DFL

FLOW

Paddle flow switch, G 1" M

REF: 50009814 - DFL



## Control

### TPM6

MOTOR CONTROL & PROTECTION

Control and protection module for motors and pumps, with overload, underload, phase failure and level, 0...40A

REF: 10002442 - TPM6-230/400



### UH1

LEVEL RELAY FOR WELL OR TANK

Level relay for conductive probes

REF: 10000063 - UH1-230  
REF: 10001442 - UH1-400



### TH-FILL

FILLING CONTROL MODULE

Filling control module by level probes or floats and 24V solenoid valve control

REF: 10002676 - TH-FILL  
REF: 10002738 - TH-FILL-C



## Remote control

### THR1-C

REMOTE CONTROL

Transmitter + receiver, UHF 433MHz band, 2 digital I/O

REF: 10002356 - THR1-C (emitter + receptor)  
REF: 10001960 - DIR-THR1-UHF (directive antenna)



### GSM

REMOTE CONTROL

GSM module, up to 8 digital inputs

REF: 10002167 - GSM-8  
REF: 10002431 - GSM-4  
REF: 10003054 - TGSM-2



### UR1

ECO SERIES ACCESSORIES

Radio receive modules, 2 digital outputs

REF: 10002586 - UR1



## Other controls

### PUMPCHECK

ZERO SERIES ACCESSORIES

Pump data analyzer

REF: 10002377 - PUMPCHECK  
Compatible with pumpcheck app.



### ALARM-BOX

HIGH LEVEL ALARM

Alarm panel with rechargeable battery, control by probes or float switches, 230VAC, 90dB buzzer

REF: 10002721 - ALARM-BOX



### UF3 / UV1

CONTROL

Phase sequence relay (UF3)  
Voltage and phase control (UV1)

REF: 10002484 - UF3-230/400  
REF: 10002483 - UV1-400



### VIGIVOLT

SURGE PROTECTORS

Protection against surges

Model V2T - 1-phase  
Model V3T - 3-phase  
Model VT24 - Signals 4-20mA

