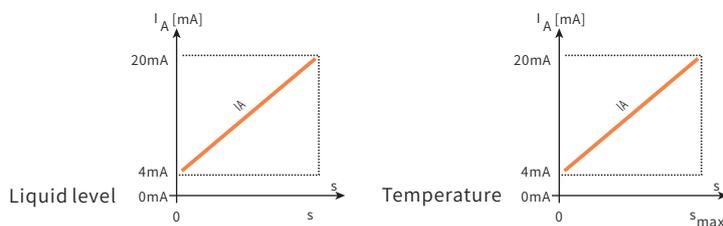




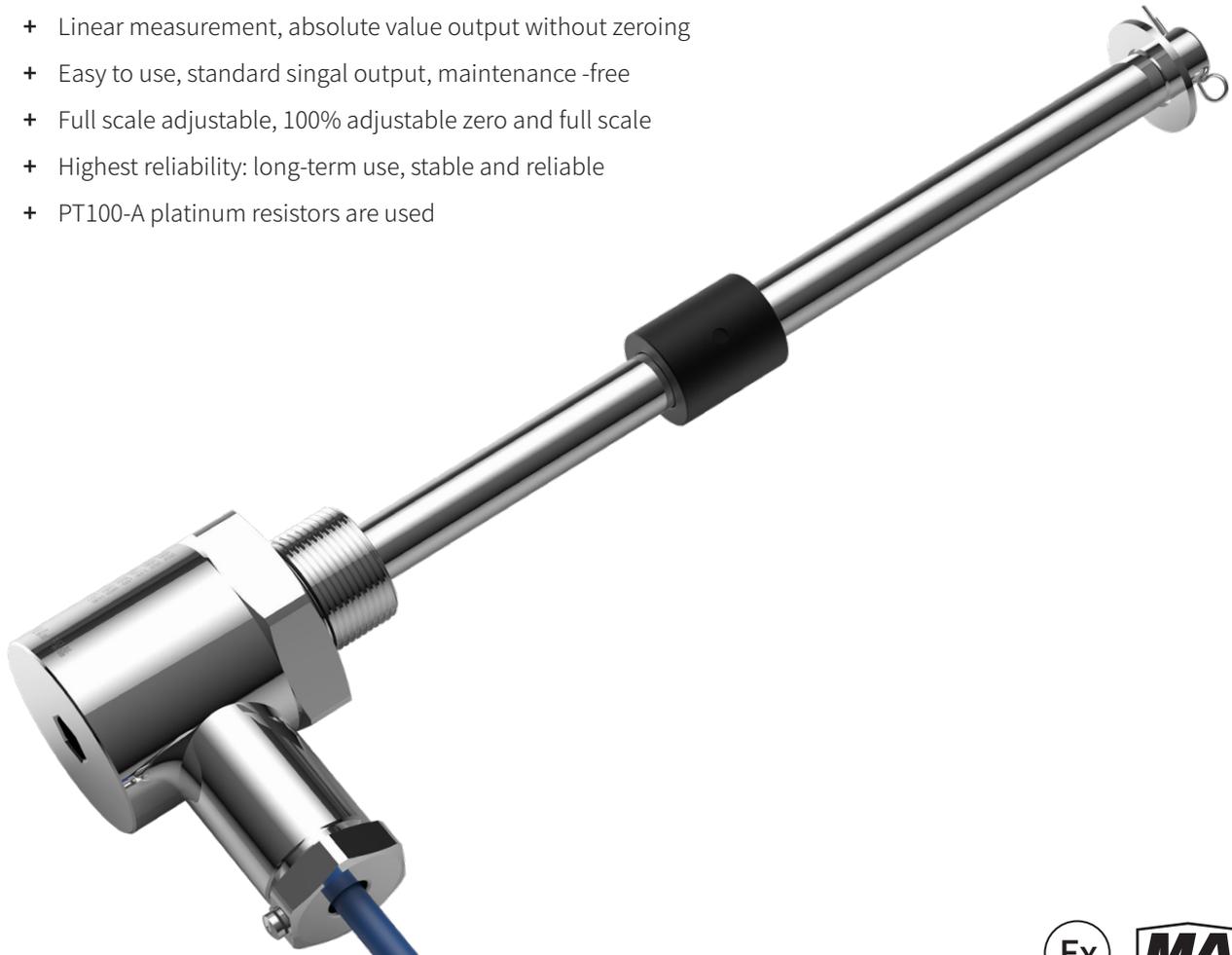
GWYS3000/100-Analog

GWYS3000/100

Mine flameproof liquid level temperature sensor



- + Robust and durable, fully enclosed design, highest IP68 protection level
- + Linear measurement, absolute value output without zeroing
- + Easy to use, standard signal output, maintenance-free
- + Full scale adjustable, 100% adjustable zero and full scale
- + Highest reliability: long-term use, stable and reliable
- + PT100-A platinum resistors are used



TECHNICAL PARAMETER

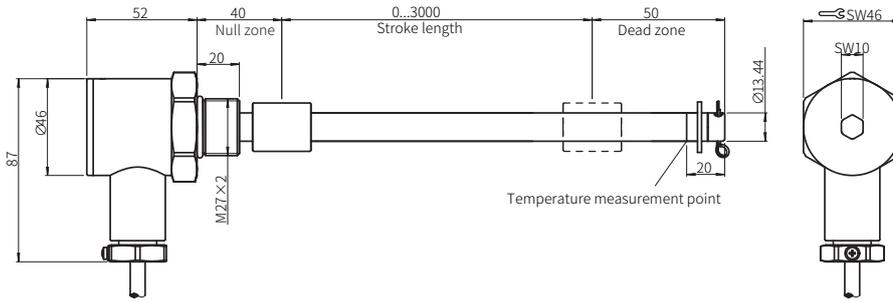
TECHNOLOGY PERCEIVES THE FUTURE

| Input | |
|-------------------------|---|
| Measured data | liquid level, temperature |
| Measurement range | Liquid level: (50...3000)mm, Temperature: (0...100)°C |
| Output | |
| Liquid level | 4...20mA |
| Temperature | 4...20mA |
| Resolution | |
| Resolution | 14 bit D/A |
| Liquid level | ±0.5% F.S. |
| Temperature | ±1°C |
| Update time | 1.5s |
| Temperature coefficient | <30ppm/°C |
| Mounting | |
| Mounting form | M27× 1.5 , M27× 2, M35× 1.5, G1, Custom flanges |
| Design/Material | |
| Electronics housing | Stainless steel 304 |
| Measuring rod | Stainless steel 304/316L |
| Float | 304/316L/NBR |
| Electrical connection | |
| Wiring connection | Straight out cable |
| Operating voltage | +24VDC (-15/+20%) |
| Polarity protection | Up to -36VDC |
| Overvoltage protection | Up to +36VDC |
| Power consumption | ≤ 50mA |
| Dielectric strength | 1000VDC (DC ground to machine ground) |
| Operating conditions | |
| Operating temperature | 0-40°C |
| Humidity | 90 % relative humidity, no condensation |
| Ingress protection | IP68 (customizable) |
| Explosion-proof type | Mine flameproof type |
| Explosion-proof mark | Ex db I Mb |

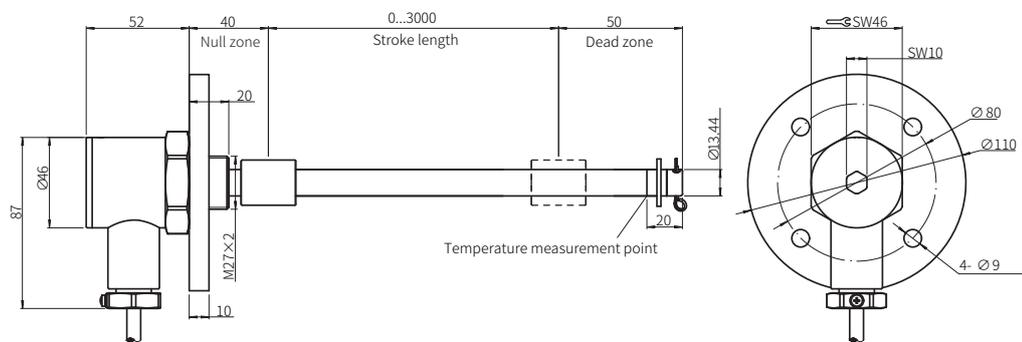
TECHNICAL DRAWING

TECHNOLOGY PERCEIVES THE FUTURE

Threaded mounting

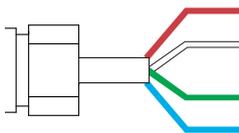


Flange mounting



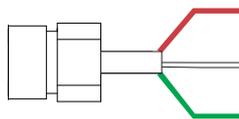
Wiring

| liquid level, temperature | Color | Function |
|---------------------------|-------|----------|
|---------------------------|-------|----------|



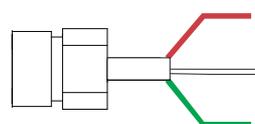
| | |
|-------|------------------------------|
| Red | +24VDC (-15/+20%) |
| White | Level signa: 4...20mA |
| Green | +24VDC (-15/+20%) |
| Blue | Temperature signal: 4...20mA |

| Liquid level | Color | Function |
|--------------|-------|----------|
|--------------|-------|----------|



| | |
|-------|-----------------------|
| Red | +24VDC (-15/+20%) |
| White | GND |
| Green | Level signa: 4...20mA |

| Temperature | Color | Function |
|-------------|-------|----------|
|-------------|-------|----------|



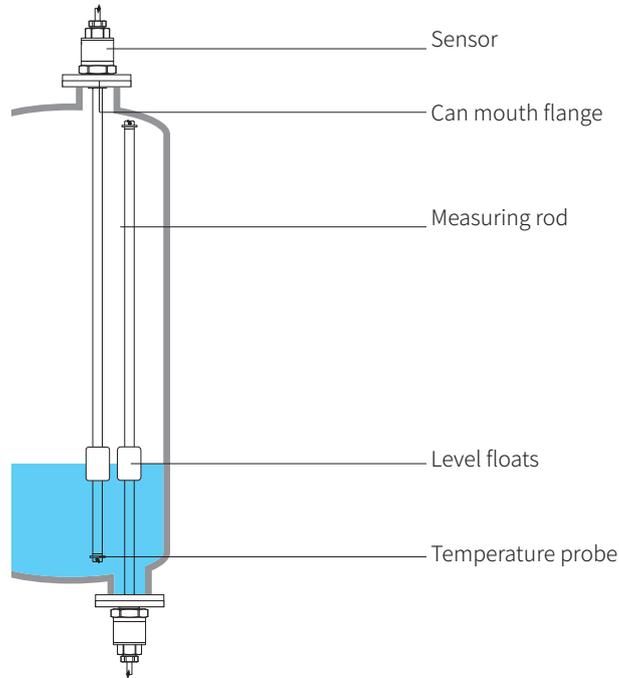
| | |
|-------|------------------------------|
| Red | +24VDC (-15/+20%) |
| White | GND |
| Green | Temperature signal: 4...20mA |

MECHANICAL MOUNTING DIAGRAM

TECHNOLOGY PERCEIVES THE FUTURE

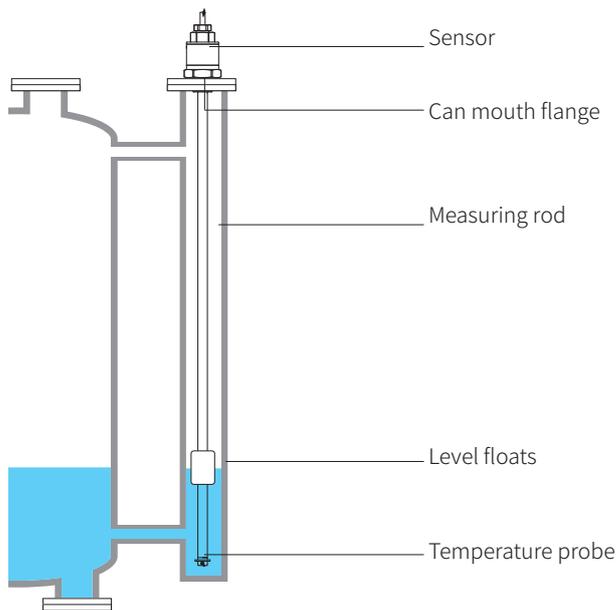
Threaded, flanged mounting

Most tanks are suitable for this type of measurement, and the connecting flange or user-specific sub-flange can be selected, and the level sensor mounting thread is screwed directly into the flange. As shown, the product is mounted vertically with the float "on" marked upwards.



Bypass tube installation

The bypass pipe installation is suitable for occasions where the liquid in the tank is stirred vigorously or the liquid temperature is high, such as in the chemical industry.



ORDER CODE

TECHNOLOGY PERCEIVES THE FUTURE

| GWYS3000/100 - | | M-000/100 - | | | |
|--------------------------------------|--|----------------------------|-------------------------|-------------|--|
| Mounting form | Level range | Temperature range | Cable length | Output | |
| A M27x1.5 | 0050...3000mm (5mm increments) | 0...100°C | 0...10m | Output Code | |
| B M27x2 | ★ When the output is A0D, the sidebar length is indicated here | The first three digits are | (If the cable length is | | |
| C M35x1.5 | | the minimum temperature, | less than two digits, | | |
| G G1 | | and the last three are the | add zeros in front.) | | |
| I G1/4 | | maximum temperature. | | | |
| F Flange mounting (default M27x2) | | | | | |

| Output Code | [1][2][3] |
|-------------|--|
| A0 | Two-wire output, liquid level: 4...20mA, temperature: 4...20mA |
| A0D | Three-wire output, temperature: 4...20mA |
| A0Y | Three-wire output, liquid level: 4...20mA |

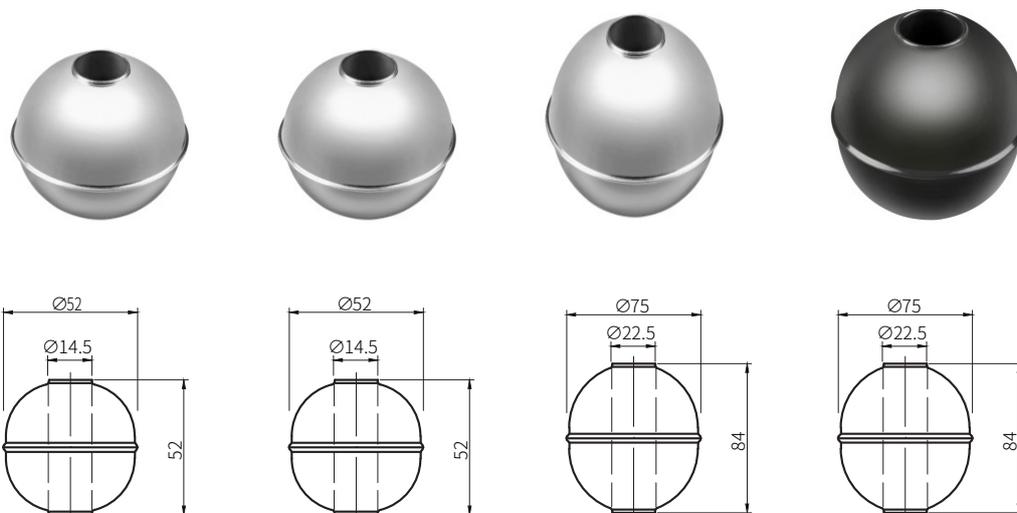
| Model selection | Model: GWYS3000/100-A-0500M-000/100-10-A0 |
|-----------------|---|
| | Explanation: GWYS3000/100 series liquid level temperature sensor, M27x1.5 threaded mounting, liquid level range 500mm, temperature range 0... 100° C, cable length 10 meters, two-wire output, liquid level 4... 20mA, temperature 4... 20mA. |

***This product is a mining product, the model must be CWYS3000/100, please refer to the selection code when ordering.**

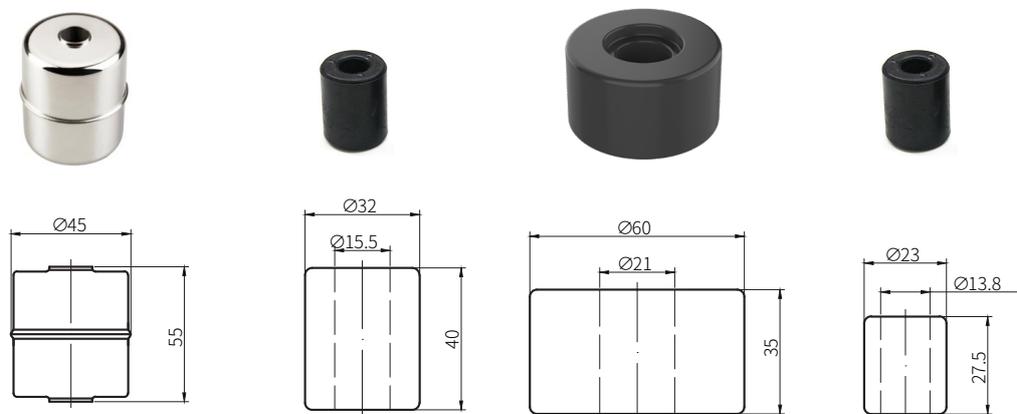


PARTS SELECTION

TECHNOLOGY PERCEIVES THE FUTURE



| | | | | |
|-----------------------|-----------------------|-----------------------|-----------------------|-------------------------------|
| Name | Float | Float | Float | Float |
| Density | 0.92g/cm ³ | 0.66g/cm ³ | 0.92g/cm ³ | 0.66g/cm ³ |
| Material | 316L | 316L | 316L | 316L Surface coated with PTFE |
| Pressure resistance | 3.4MPa | 3.4MPa | 3.4MPa | 3.4MPa |
| Operating temperature | -40...105°C | | | |
| Order code | 11-1050 | 11-1051 | 11-1048 | 11-1049 |



| | | | | |
|-----------------------|-----------------------|-----------------------|----------------------|-----------------------|
| Name | Float | Float | Float | Float |
| Density | 0.53g/cm ³ | 0.44g/cm ³ | 0.5g/cm ³ | 0.71g/cm ³ |
| Material | 316L | NBR | NBR | NBR |
| Pressure resistance | 3.4MPa | / | / | / |
| Operating temperature | -40...105°C | | | |
| Order code | 11-1052 | 11-1053 | 11-1054 | 11-1056 |

Building 6, Dazu Enterprise Bay, 8th yard of Liangshuihe 2nd street, BDA Beijing P.R.China

Tel: +86 10-67948976 67948916
 Fax: +86 10-67948979
 Technical support: +86 (0)13370126657
 Mailbox: sale@tbfsensor.com

Beijing Tebeifu Electronic Technology Co., Ltd.

