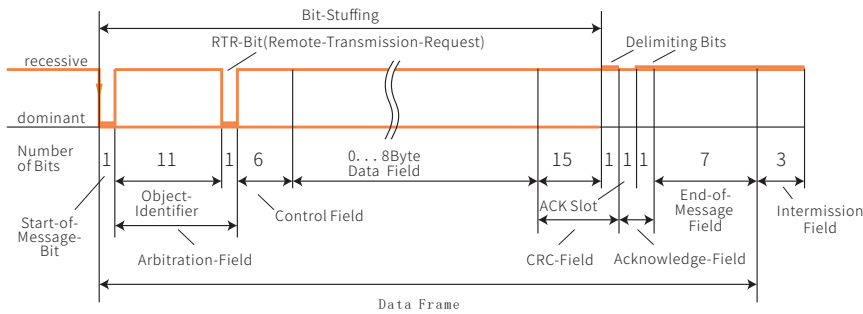




GWYS3000/100-CANopen

GWYS

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 singal output, maintenance -free
- + Full scale adjustable, 100% adjustable zero and full scale
- + Highest reliability: long-term use, stable and reliable



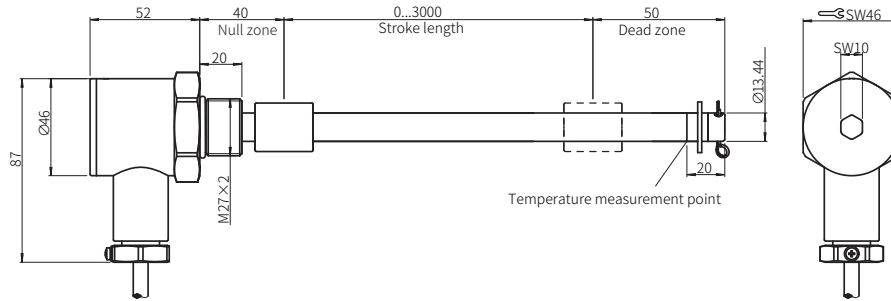
TECHNICAL PARAMETER

TECHNOLOGY PERCEIVES THE FUTURE

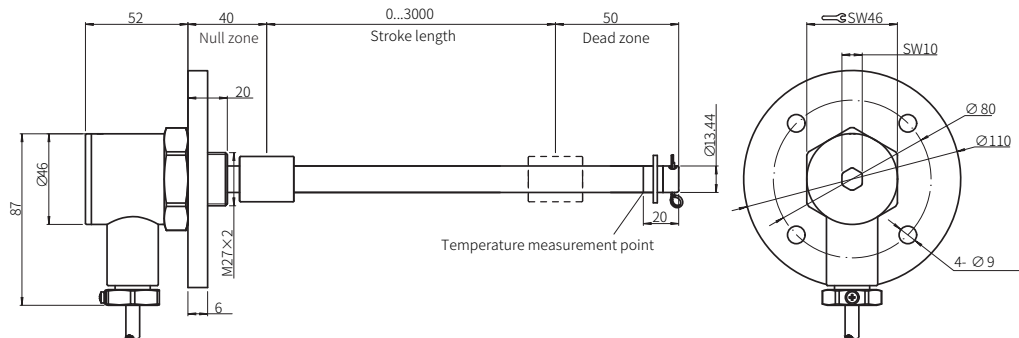
Input	
Measured data	liquid level, temperature
Measurement range	Liquid level: (50...3000)mm, Temperature: (0...100)°C
Output	
Communication protocols	CAN bus system protocol, ISO11898 CAN open CIA standard DS-301 V3.0 encoder profile DS-406 V3.1
Transmission rate	10 kbps...1Mbps
Resolution	
Resolution	100µm
Liquid level	±0.04% F.S .
Temperature	±1°C
Update time	2ms (Customizable)
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	9...36VDC
Polarity protection	Up to -36VDC
Overvoltage protection	Up to +36VDC
Power consumption	≤ 70mA
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



Threaded mounting



Flange mounting



Wiring

liquid level, temperature	Color	Function
	Red	9...36VDC
	White	GND
	Green	CAN L
	Blue	CAN H

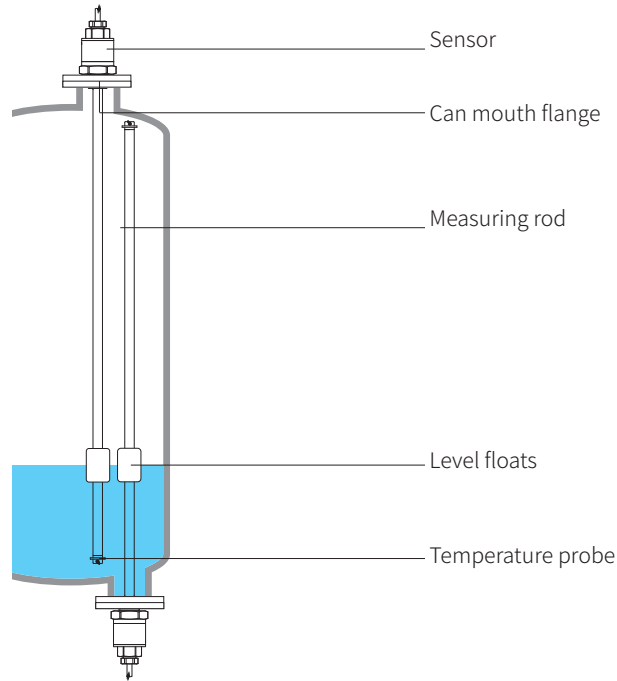


MECHANICAL MOUNTING DIAGRAM

TECHNOLOGY PERCEIVES THE FUTURE

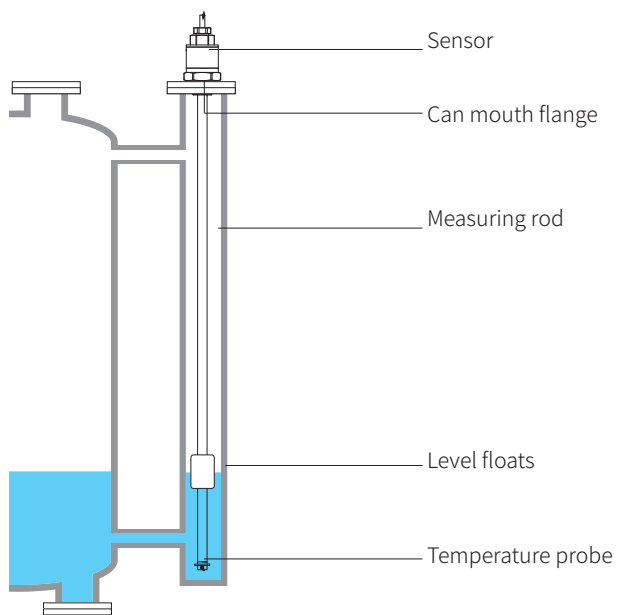
Threaded, flanged mounting

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 - - - - C - - - - -

	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		The first three digits are the minimum temperature, and the last three are the maximum temperature.	(If the cable length is less than two digits, add zeros in front.)	
C	M35x1.5				
G	G1				
I	G1/4				
F	Flange mounting (default M27x2)				

CANopen Output Code	C[1][2][3][4][5] Note: "*" as default			
	[1] Resolution	[2] Baud rate	[3] PDO cycle	[4][5] Node-ID
5	100µm*	0 1000kBit/s 1 800kBit/s 2 500kBit/s 3 250kBit/s* 4 125kBit/s 5 100kBit/s 6 50kBit/s 7 20kBit/s 8 10kBit/s	1 1ms 2 10ms* 3 100ms 4 Customizable (1-65535ms)	Hexadecimal 01...7F*

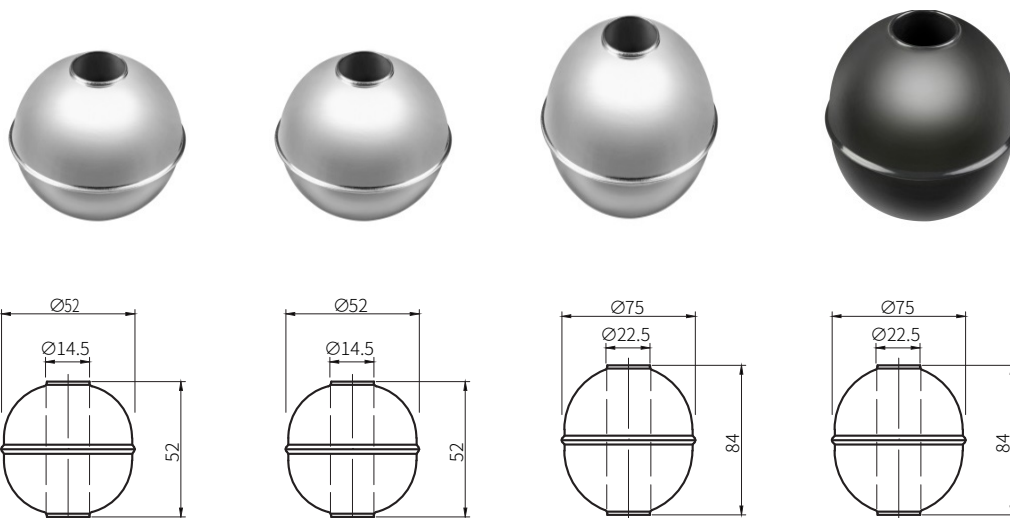
Model selection	Model: GWYS3000/100-A-0500M-000/100-10-C5327F
	Explanation: GWYS3000/100 series liquid level temperature sensor, M27x1.5 threaded mounting, liquid level range 500mm, temperature range 0... 100° C, cable length 10 meters, CANopen output, resolution ratio 100µm, baud rate 250kBit/s, PDO cycle 10ms, node-id 7F.

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

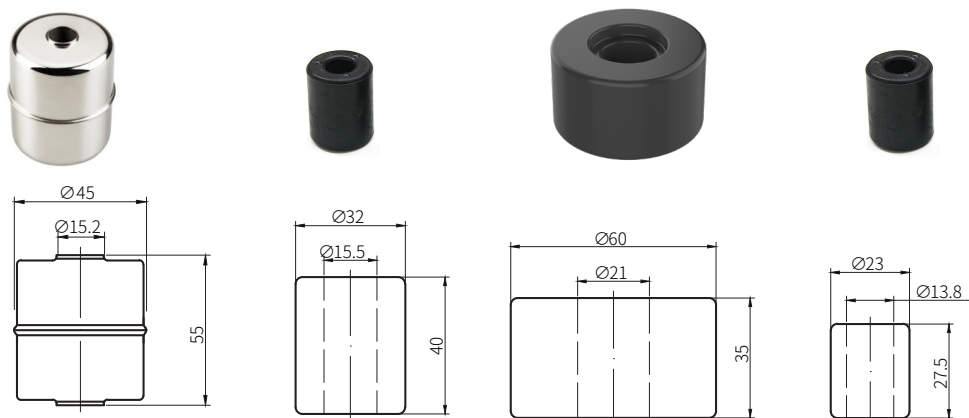


PARTS SELECTION

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

Beijing Tebeifu Electronic Technology Co., Ltd.

Building 6, Dazu Enterprise Bay,
8th yard of Liangshuihe 2nd street, BDA P.R.China
Tel: +86 10-67948976 67948916

Fax: +86 10-67948979

Mailbox: sale@tbfsensor.com

TBF Electronic Technology GmbH(German branch)

Felix-Wankel-Str.1 1.OG 85221 Dachau, Germany

Tel: +49(0)8131 337578-0

E-mail: info@tbfsensor.com



www.tbfsensor.com