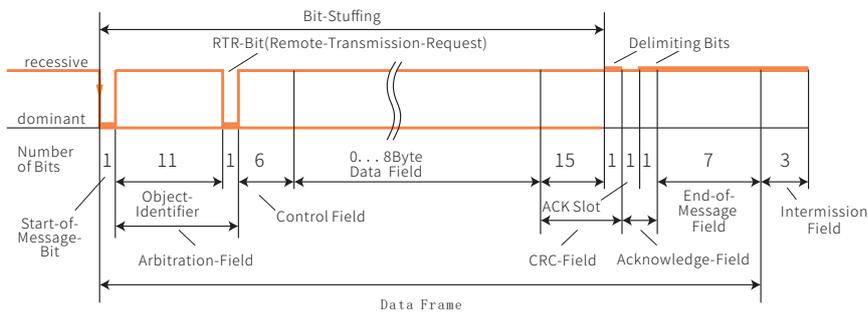




# GWYS3000/100-CANopen

**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



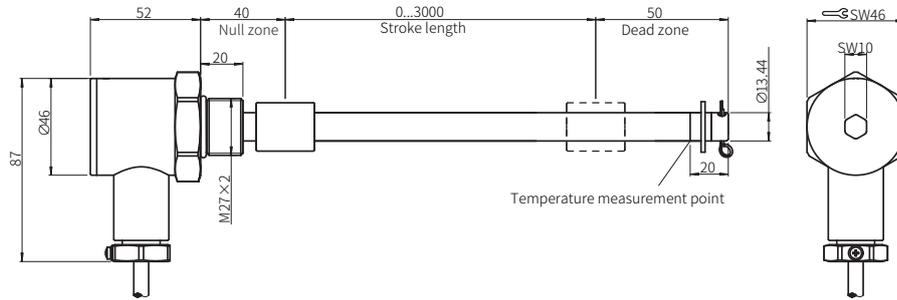
## TECHNICAL PARAMETER

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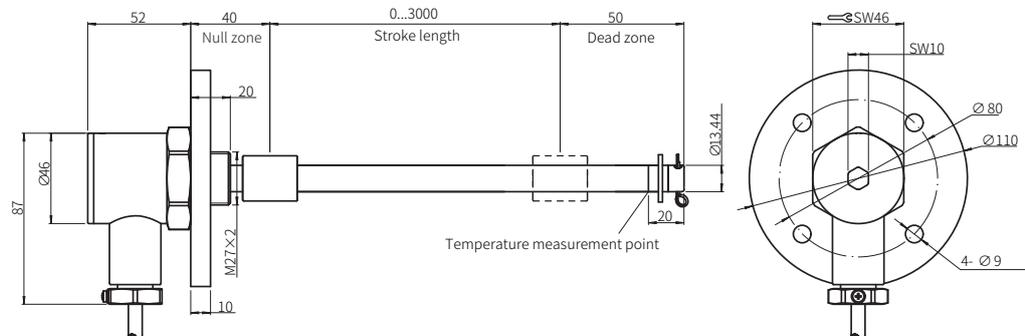
<b>Input</b>	
Measured data	liquid level, temperature
Measurement range	Liquid level: (50...3000)mm, Temperature: (0...100)°C
<b>Output</b>	
Communication protocols	CAN bus system protocol, ISO11898 CAN open CIA standard DS-301 V3.0 encoder profile DS-406 V3.1
Transmission rate	10 kbps...1Mbps
<b>Resolution</b>	
Resolution	100µm
Liquid level	±0.04% F.S .
Temperature	±1°C
Update time	2ms ( Customizable)
Temperature coefficient	<30ppm/°C
<b>Mounting</b>	
Mounting form	M27× 1.5 , M27× 2, M35× 1.5, G1, Custom flanges
<b>Design/Material</b>	
Electronics housing	Stainless steel 304
Measuring rod	Stainless steel 304/316L
Float	304/316L/NBR
<b>Electrical connection</b>	
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)
<b>Operating conditions</b>	
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

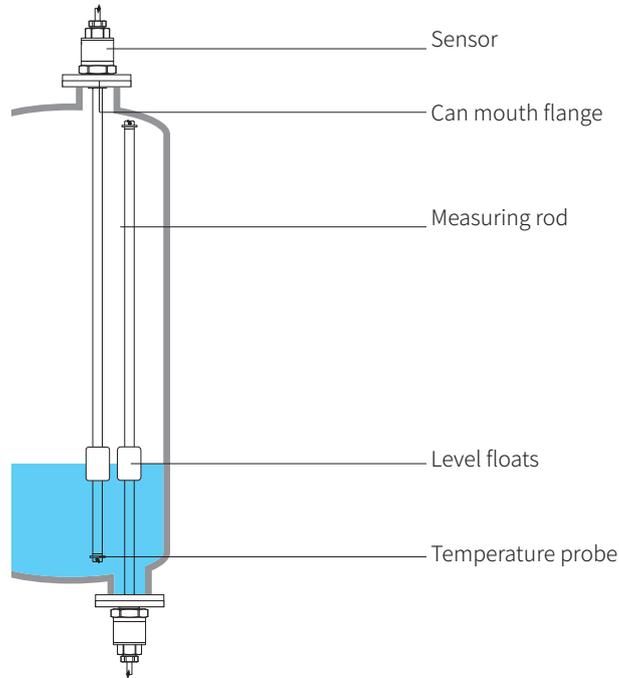


**MECHANICAL MOUNTING DIAGRAM**

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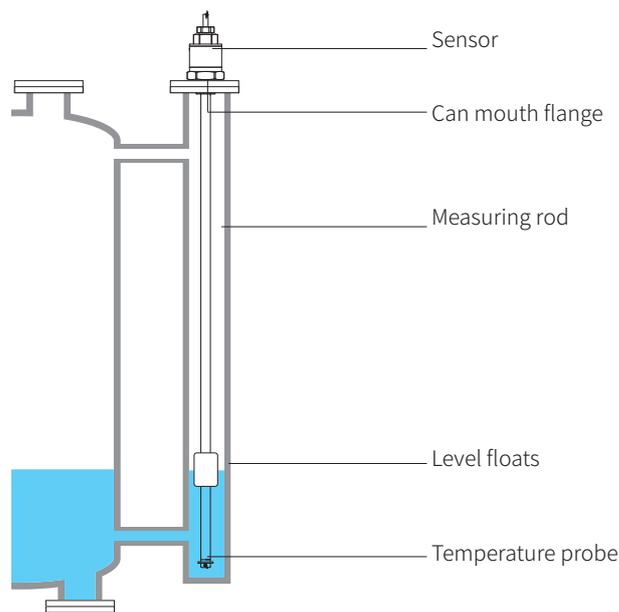
**Threaded, flanged mounting**

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**

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**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	(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)				

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 1ms	Hexadecimal
		1 800kBit/s	2 10ms*	01...7F*
		2 500kBit/s	3 100ms	
		3 250kBit/s*	4 Customizable	
		4 125kBit/s	(1-65535ms)	
		5 100kBit/s		
		6 50kBit/s		
		7 20kBit/s		
		8 10kBit/s		

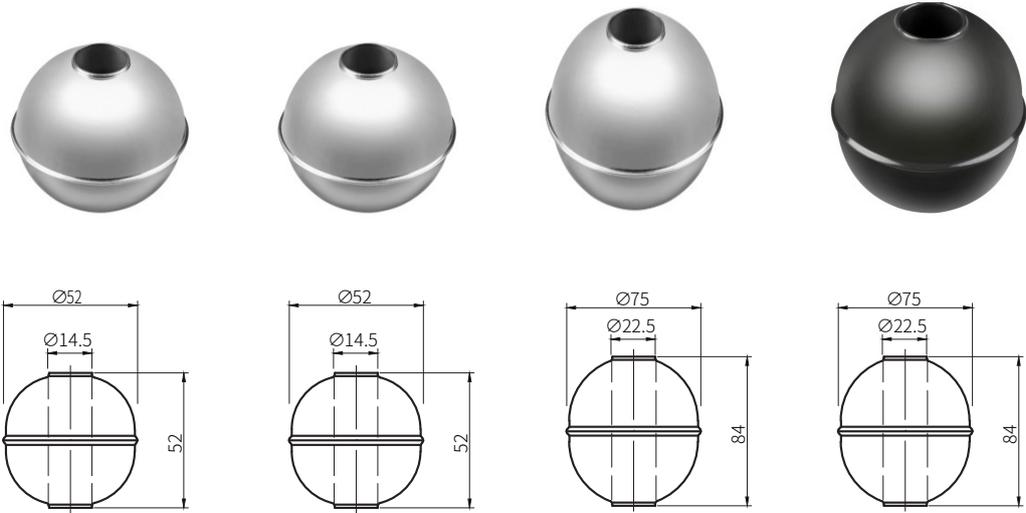
Model selection	Model: GWYS3000/100-A-0500M-000/100-10-C5327F
	Explanation: GWYS3000/100 series liquid level temperature sensor, M27x1.5 threaded mounting, liquid level range 500mm, temperature range 0... 100° C, cable length 10 meters, CANopen output, resolution ratio 100µm, baud rate 250kBit/s, PDO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

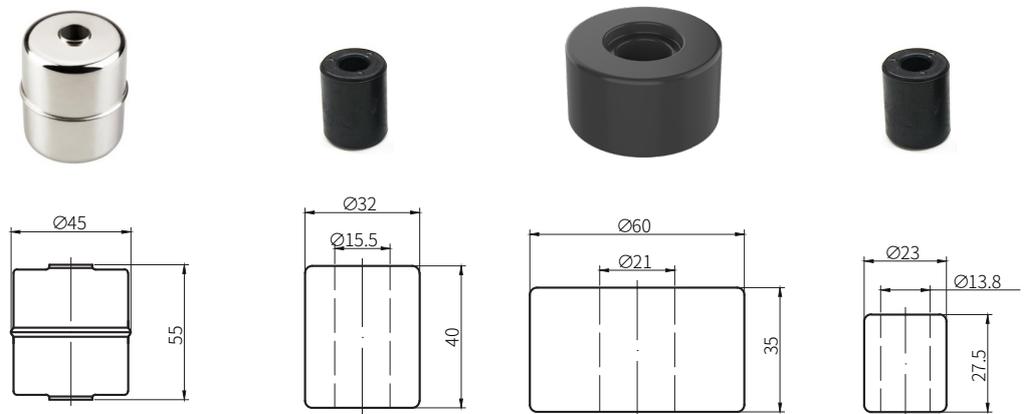


**PARTS SELECTION**

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



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

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