

Tanji's High-frequency Level Gauge Product Line





Easy installation!!

ATseries

Multi point detection by one unit is possible!

- Amplifier section built into head
- Low cost
- Detection of continuous analog output and contact output
- Easy installation
- Installation location and measurement range can be arbitrarily changed.





Applicable to high-pressure conditions

BTLseries

Separation of the amplifier section from the head permits the use under high-temperature and high-pressure conditions!

- Vacuum to 1Mpa*1
- Fluid measurement temperature range*2 -20 ~ 200C°
- Installation location and measurement range can be arbitrarily changed.



*2 Contact us for details.



Patent

The performance is less affected by adhesion of impurities to the electrode.

STBseries

STB series level switch is available for a wide range of measuring object including liquids, powders, and solids.

- The performance is less affected by adhesion of impurities to the electrode.
- The output status and the sensitivity setting are adjustable by LED and the volume of the main body.
- Low cost and high reliability
- Measurement range can be freely changed by changing the attachment of the electrode.
- The measurement of the point under high-temperature and high-pressure conditions is possible (Separated type).
- High corrosion resistance and waterproof property.
- Installation location and measurement range can be arbitrarily changed.



Separated type









Patent

Easy handling / Convenience / **Environmental Measures**

series

The remaining volume can be checked in only one second after pushing the button!

- Operates on AA battery
- Lightweight and easy to carry.
- The level of liquid can be confirmed with a 10-step LED.
- Battery operated or use with the AC adapter (100V).
- Installation location and measurement range can be arbitrarily changed.

Drip-proof type



Drip-proof and IP66 compliant!

Suitable for outdoor or mist environments!

- Drip-proof version of AT series
- The sensor, head, and pipe are made of SUS304 to increase corrosion resistance.
- Installation location and measurement range can be arbitrarily changed.

Compact level sensor

*Specifications are subject to change without notice.

Smallest level sensor with a linear output

type

Measurement range can be set freely. Wetted parts take up little space in the tank!

Separated type

Patent

- Linear output 4~20mA or DC1~5V
- For water-soluble liquid only
- Multi point detection
- Installation PT3/8~
- Separated amplifier
- Installation location and measurement range can be arbitrarily changed.



Compact level switch

Installable in all directions Space-saving and controllable!

- For water-soluble liquid only
- Installation PT1/8~
- arbitrarily changed.

Separated amplifier Patent Installation location and measurement range can be

Level controller



This controller is easy to use and has broad utility. Also it can be equipped with various options.



Scaling display controller

Scaling option permits detection of linear output in arbitrary unit.

- Comparative output : Maximum 4 points detection is possible.
- Application model : AT, BLT, HT (Continuous analog output type)
- Lamp display, buzzer alarm, protection circuit, sensor input power source, etc. (Option)

Level controller for contact point signal

This controller accepts both AC and DC power supplies.

- Comparative output : Maximum 4 points detection is possible.
- Application model : AT, BLT, HT (Open collector output type)
- Lamp display, buzzer alarm, protection circuit, etc. (Option)



Specifications

■ Integrated type AT series

Example of use: Various open-top tank level control

Model	AT302 AT401			
Measurement range L	Standard (200mm, 300mm, 500mm, 950mm) Up to 4m is available on request.			
Measurement method	Capacitance type			
Operating temperature range	-10~60°C (Depending on environment)			
Storage temperature range	− 40~80°C			
Operating humidity	35~85% (Non condensing)			
Power supply voltage	DC10~30V			
Consumption current	50mA Max	150mA Max		
Control output (Each open collector output)	point: Upper limits or lower limits points: Upper and lower limits points: Upper and lower limits and a medium between upper and lower limits	4 points: Uppermost and lowermost limits and upper and lower limits 5 point: Uppermost and lowermost limits and upper and lower limits and upper and lower limits and a medium between upper and lower limits. Linear output: 420mA, DC15V "Linear output can be added to above contact point output (only DC15V).		
Material	Sensor head: Aluminum Pipe: SUS304(Standard) Titanium/SUS316L(Option) Electrode: Teflon-coated SUS304 rod Insulator: Teflon			
Dimensions	ø71 x 70+ (Length of electrode)			
Wire length	Lead: 2.5m(Standard)			
Weight	Approx. 800g (L=500mm)			

Applications

- · Various equipments, washers, etc.
- Places where temperature and pressure basically do not increase.
 Places where there is no restriction by installation.

■ Separated type BTL series

Example of use: Closed tank and high temperature tank

Model BTL204 BTL301 Measurement range L Standard (200mm, 300mm, 500mm, 950mm) Up to 4m is available on request. Measurement method Capacitatoet type Operating temperature range AMP: -10-60°C (Depending on environment). Electrode: -20- 200°C (Contact us) Storage temperature range AMP: 355-85% (Non condensing) Power supply voltage DC10-30V Consumption current 50mA Max 150mA Max Control output (Each open collector output) 1 points: Upper limits or lower limits 3 points: Upper and lower limits 3 points: Upper and lower limits 3 points: Upper and lower limits and upper and lower limits and upper and lower limits and a medium between upper and lower limits and upper and lower limits and a medium between upper and lower limits and upper and lower limits and a medium between upper and lower limits and a medium between upper and lower limits and upper and l	Zamipio di dodi didda tama and mga temperatare tama					
Measurement method Capacitance type	Model	BTL204	BTL301			
Storage temperature range	Measurement range L	Standard (200mm, 300mm, 500mm, 950mm) Up to 4m is available on request.				
Storage temperature range	Measurement method	Capacitance type				
Power supply voltage DC10~30V	Operating temperature range	AMP: -10~60°C (Depending on environment), Electrode: -20~ 200°C (Contact us)				
Power supply voltage Consumption current 50mA Max 150mA Max 4 points: Upper most and lower limits 2 points: Upper and lower limits 3 points: Upper and lower limits 3 points: Upper and lower limits 4 points: Upper and lower limits 5 points: Upper and lower limits 6 points: Upper and lower limits 6 points: Upper and lower limits 6 point output (may be upper and lower limits 6 point output (may be upper and lower limits 6 point upper and lower limits and upper and lower limits and upper and lower limits and upper and lower limits 1 linear output can be added to above contact point output (may DC1-5V 1 linear output can be added to above contact point output (may DC1-5V 1 linear output can be added to above contact point output (may DC1-5V 1 linear output can be added to above contact point output (may DC1-5V 1 linear output can be added to above contact point output (may DC1-5V 1 linear output can be added to above contact point output (may DC1-5V 1 linear output can be added to above contact point output (may DC1-5V 1 linear output can be added to above contact point output (may DC1-5V 1 linear output can be added to above contact point output (may DC1-5V 1 linear output can be added to above contact point output (may DC1-5V 1 linear output only DC1-5V 1 linear output (may DC1-5V 1 linear output only DC1-5V 1 linear output	Storage temperature range	AMP: -40~80°C				
Consumption current Control output (Each open collector output) Particle of the control output (Each open collector output) Amount of the control output (Each open collector output) Amount of the control output outp	Operating humidity	AMP: 35~85% (Non condensing)				
Control output (Each open collector output) 1 point: Upper limits or lower limits 2 points: Upper and lower limits 3 points: Upper and lower limits 4 points: Upper and lower limits 5 points: Upper and lower limits 6 points: Upper and lower limits 7 points: Upper and lower limits 8 points: Upper and lower limits 9 points: Upper and lower limits 1 point: Uppermost and lowermost limits and upper and lower limits 1 point: Uppermost and lower limits 1 point: Uppermost and lower limits 1 point: Uppermost and lower limits 2 points: Uppermost and lower limits and upper and lower limits 2 points: Uppermost and lower limits and upper and lower limits and upper and lower limits 3 points: Uppermost and lower limits 4 points: Uppermost and lower limits 5 point: Uppermost and lower limits 5 point: Uppermost and lower limits and upper and lower limits and	Power supply voltage	DC10~30V				
(Each open collector output) 2 points: Upper and lower limits 3 points: Upper and lower limits and a medium between upper and lower limits 5 point: Uppermost and lowermost limits and upper and lower limits 5 point: Uppermost and lowermost limits and upper and lower limits 5 point: Uppermost and lower limits 5 point: Uppermost and lower limits 5 point: Uppermost and lower limits 6 point:	Consumption current	50mA Max	150mA Max			
Insulator within the head: Teflon AMP waterproof and dustproof BOX: Aluminum-die-cast Insulator within the head: SUS304 (Standard) Titanium, SUS316L (Option) Electrode: Teflon-coated SUS304 rod Dimensions Head: Screw type 682x77+length of electrode Flange type flange rating x50+length of electrode AMP waterproof and dustproof BOX: 80x80x60 Wire length Lead: 2.5m(Standard) BNC cable: 2m(Basically unmodifiable)		2 points: Upper and lower limits 3 points: Upper and lower limits and a medium between	lowermost limits and upper and lower limits 5 point: Uppermost and lower limits and upper and lower limits and a medium between upper and lower limits Linear output: 4–20mA, DC1~5V *Linear output can be added to above			
Flange type flange rating x50+length of electrode AMP waterproof and dustproof BOX : 80x80x60 Wire length Lead : 2.5m(Standard) BNC cable : 2m(Basically unmodifiable)	Material	Insulator within the head: Teflon AMP waterproof and dustproof BOX:	SUS304 (Standard) Titanium, SUS316L (Option)			
	Dimensions	Flange type flange rating x50+length of electrode				
Weight JIS 10K flange type Approx. 3500g (L=500mm)	Wire length	Lead : 2.5m(Standard) BNC cable : 2m(Basically unmodifiable)				
	Weight	JIS 10K flange type Approx. 3500g (L=500mm)				

Applications

- Boiler, various plants
 The use under high temperature and pressure conditions.

Level switch STB series

Example of use: Measurement of points in small spaces

Model	STB-1	STB-2	STB-3	
Measurement method	Capacitance type			
Measurement type	Integrated type	Integrated electrode additional type	Separated type	
Operating temperature range	10~60°C (Depending on environment)		AMP: -10~60°C (Depending on environment) Electrode: 200°C MAX (Contact us)	
Storage temperature range	− 40~80°C			
Operating humidity				
Protection	IP67 compliant		According to product specifications	
Power supply voltage	DC10~30V			
Consumption current	20mA or less			
Control output	3 wire direct current NPN output(Sink current 100mA MAX)			
Material	Sensor head: SUS304(Standard) Electrode: SUS304(Standard) Titanium, SUS316L(Option) Insulator: Teflon		AMP: Aluminum-die-cast Electrode: (Contact us)	
Dimensions	ø30x117	ø30x122+length of electrode	AMP BOX: 39x93x32	
Wire length	Lead: 2.5m(Standard)		Lead: 1m(Standard) Coaxial cable between AMP and sensor: According to product specifications	
Weight	Approx. 300g	Main body(300g) + electrode	AMP: Approx. 100g Electrode: According to product specifications	

Applications

- Point level detection in various equipments
 Measurement under the condition that adhesions of slurry and high viscosity liquids are not avoided

Portable type KT series

Example of use: Detection of liquid level in drum and other cans where visual confirmation is impossible.

Model	KT		
Measurement range L	Standard (360mm, 500mm, 850mm) Up to 4m is available on request.		
Measurement method	Capacitance type		
Operating temperature range	−10~35°C (Depending on environment)		
Storage temperature range	-40~80°C		
Operating humidity	35~85% (Non condensing)		
Power supply	AA battery x2 (Standard)		
Battery life	300 minutes of continuous operation (When using alkaline battery).		
Option	No input-output: Standard AC adaptor: AC100V power outlet		
Control output	10-step LED display		
Material	Head: Aluminum(Black alumite treatment) Pipe: SUS304(Standard) Titanium, SUS316L(Option) Electrode: Teflon-coated SUS304 rod Insulator: Teflon		
Dimensions	ø65 x 137 + length of electrode		
Weight	Approx. 1.3kg(L=850mm)		

Applications

- Display of the remaining liquids quantity in drum and other cans where visual confirmation is impossible
- Prevention of the spill of waste oil.
- · Water, oil and other liquids can be measured.



Phone: +81-749-65-1950

886-1 kamiteru-cho, Nagahama, Shiga Pref, JAPAN 526-0015 FAX: +81-749-65-3390

URL • http://tanji-ss.co.jp/ E-mail • info@tanji-ss.co.jp

_						
٦е	nr	20	Δn	ıta	ti۱	α
10	vı	てつ	CI.	ιια	UΙV	_