
Tank Mounted Level Transmitter

Model : L72S (Stainless steel silicon cell)

WISE
SENSOR

Advantages

- Capacitive ceramic measuring sensor
- Highly accurate Piezoresistive silicon measuring sensor
- Measuring ranges from 500mmH₂O to 35kgf/cm²
- Excellent accuracy and long term stability
- Extremely high over-pressure limit
- High accuracy level measurement with temperature stability
- LED 4 digit display with 4~20mA
- Auto zero calibration (Push the SET Button 3second)

Applications

The hydrostatic level transmitters can be used for a wide range of industrial applications for tank level measurement.

- Continuous level measurement in tanks, vessels, sumps or pits(liquid)
- Water and sewage treatment
- Process control for food and beverage industries
- Chemical and petrochemical industries



L72S

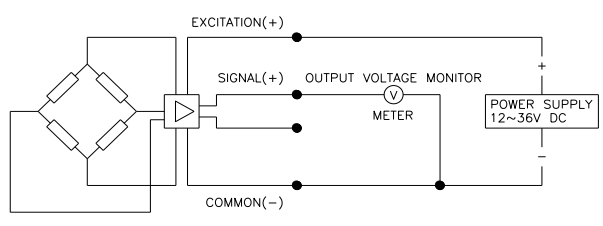
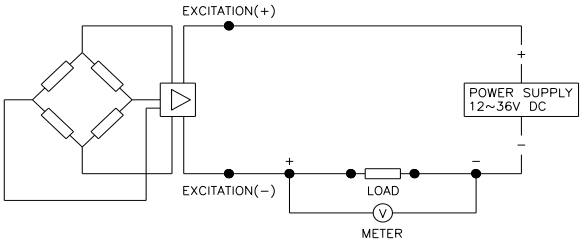
Descriptions

L700 series level transmitters provide reliable measurement and control of the process level by sensing the hydrostatic pressure in a tank. The transmitter incorporates a capacitive or piezoresistive diaphragm sensor coupled to a proven design, and is 316L stainless steel on all wetted parts and is repairable. Additionally, an optional LED display allows the user an at-a-glance reading without the expense of additional gauges or digital meter. A compact and mass optimized design with a choice of corrosion resistant materials together with a wide variety of standard process connection options, makes it the ideal choice for simple application in many industries. The transmitter has a water resistant, stainless steel housing for complete protection from harsh environments and its 4~20mA current output is ideal for remote monitoring of both primary and secondary process variables. It has been designed as an advanced device for measuring level pressure of water and liquids in industrial applications. The pressure to be measured acts through thin corrosion resistant stainless steel 316L diaphragm on a silicon measuring element. The pressure transmitting medium is silicon oil. The measuring element contains diffused piezoresistive resistors which are connected into a Wheatstone bridge. The output signal of this bridge is temperature compensated and converted into a standardized current or voltage output signal.

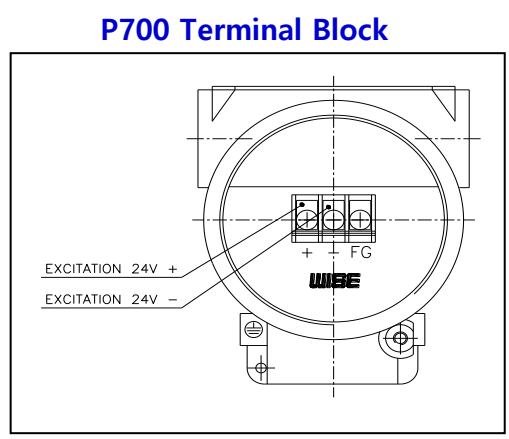
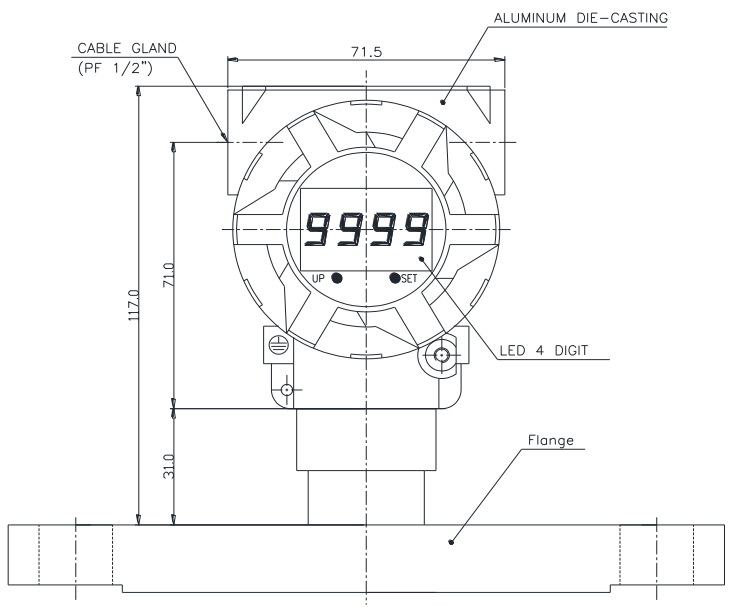
Specification

Input	
Model	L72S
Technology	Piezoresistive silicon pressure sensor
Pressure ranges	0~0.05 to 35kgf/cm ² relative pressure
	0~1 to 35kgf/cm ² absolute
Pressure reference	Relative
Overload	3x full scale without damage
Output	
output signal	4~20mA DC or 1~5V DC
	Other signal available on request
Local display	LED 4 digit
Electrical Specification	
Excitation voltage	24V DC(12~36V DC), 85~260V AC (optional)
Load resistance max @ 24V	500Ω at 24V
Influence of excitation	0.01% FSO/V
Power ripple	≤500mV P-P
Reverse polarity	Protected
Shock resistance	No change in performance after 10Gs for 11ms
Vibration	0.1G (1 m/s/s) maximum
Response time(10~90%)	≤ 2 milliseconds
Adjustment	±10% FSO/zero and span (Fixed value by default)
Performance Specification	
Accuracy	≤ ±0.25% FSO
Non-linearity	±0.100% FSO typical
Repeatability	±0.015% FSO typical
Pressure hysteresis	±0.010% FSO typical
Long term stability	±0.3% FSO over 6 month
Cutoff frequency(-3 d B)	≤ 2KHz
Reference temperature	25°C
Operating temperature range	-20~60°C
Storage temperature range	-40~70 °C
Thermal sensitivity shift	≤ ±0.2% FSO typical
Thermal zero shift	≤ ±0.2% FSO typical
Thermal hysteresis	≤ ±0.1% FSO typical
Physical Specification	
Process connection	Flange mounting(ANSI, DIN, JIS)
	Chemical sealed with Clamp, Flange, etc.
	Other process connections available on request
Process media	Gases and liquids compatible with
Materials	Diaphragm: Stainless steel 316
	Housing and process connection : stainless steel 316
	Terminal head : Aluminium Die-casting (ALDC)
	Gasket O-ring : Viton (HNBR, CSM, etc.)
Enclosure rating	IP65
Influence of mounting position	Under 0.5kgf/cm ² , mounted vertically
Weight	Approx. (1500g)
Options	Remote sealed diaphragm

System connection for 2-wire transmitter System connection for 3-wire transmitter



Dimension (mm) Electrical connection



Ordering Information

Tank Mounted Level Transmitter

L72S																			Capacitive ceramic sensor
	8																		Tank side mounting version
	9																		Tank bottom mounting version
		R																	Relative pressure
		A																	Absolute pressure
			J																Process connection : Flange per JIS
			A																Flange per ANSI
			D																Flange per DIN
			C																Clamp
			X																Other connection available on request
				XXX															Writing a flange specification
								01											Measuring range: 0 ~ 500 mmH2O
								02											0 ~ 700
								03											0 ~ 900
								04											0 ~ 1000
								05											0 ~ 2000
								06											0 ~ 5000
								07											0 ~ 1 kg/cm2
								08											0 ~ 2
								09											0 ~ 5
								10											0 ~ 10
								11											0 ~ 20
								12											0 ~ 35
								XX											Other calibration ranges available on request
									K										calibration in kgf/cm ²
									H										calibration in mmH2O
									A										calibration in Mpa
									P										calibration in psi
									X										calibration in psi
									X										Other units available on request
										C									4~20mA Current output signal
										V									1~5V Voltage output signal
										X									Other signals available on request
											N								None options
												R							Remote sealed diaphragm
													P						Other accessories available on request

L72S	8	R	J	10K 80A RF	1	H	C	N	Sample ordering code
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Specifications subject to change without notice