SENSE Instruments CO., LTD.

Production address:
Room 101,NO.34,885# Jinyu RD, Jinqiao
Export Processing Zone

Telefon: +86(21) 5854 0878
Telefax: +86(21) 5899 3196
E-mail: sense.oversea@sen-tek.com
sense.oversea@sen-tec.com
Internet: www.sen-tec.com

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Submersible Level Transmitter STK633(CCPS32 sensor)

This picture is only for reference

The STK633 Stainless Steel Submersible Transmitter with capacitive ceramic sensor is suited for level measurement of fluids in open tanks, containers or reservoirs.
The STK633 is available with a HART-Interface.

Area of Application

Sewage treatment,
Water supply,
Depth or level measurement in wells and open waters,
Ground water level measurement
Level monitoring in open tanks

Performance

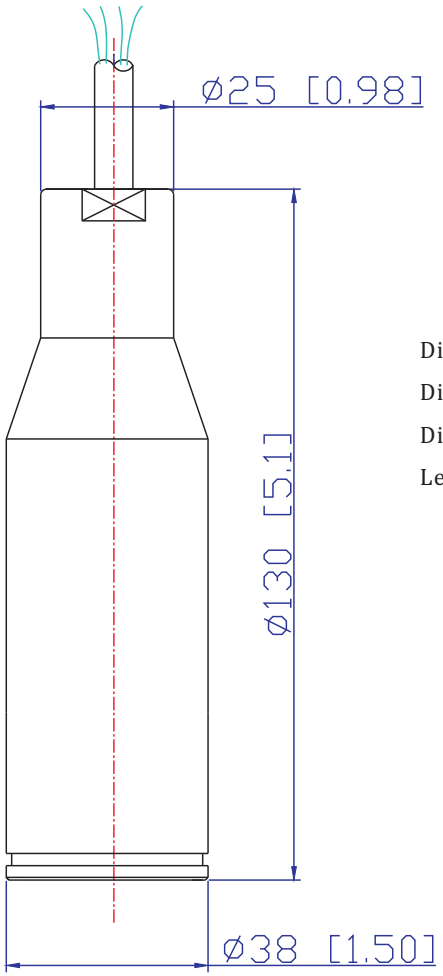
Inside three protection function,
-avoid condensation
Flush diaphragm, Sample cleaning
Wide range measurement
Excellent repeatability
Long term stability
Suitable for all fluids which are
-compatible with stainless steel

Technical data

Accuracy											
0.1%/0.25%/0.5% FSO											
Measuring range											
Pressure gauge(bar)	0...0.05	0...0.1	0...0.2	0...0.4	0...1	0...2	0...10	0...20			
Level (mH2O)	0.5	1	2	4	10	20	100	200			
Overpressure Pmax (bar)	4	4	6	6	10	18	40	40			
Power supply (polarity protected)											
Supply voltage	12...45 VDC										
Output signal											
2-wire-system	4...20 mA with superimposed signal for HART protocoldigital communication										
3-wire-system(optional)	1...5V										
Signal range-4 to 20 mA	3.8mA...22.8mA										
Signal on alarm	3.8mA/Option: 22.8mA/Others on request										

Performance	
Accuracy	Nominal range 0.1%
	0.25% accuracy for range trundown 4:1
	0.5% accuracy for range trundown 10:1
Power supply effect	Negligible
Vibration effect	<0.01% of URL/g when tested 200Hz in any axis relative
Thermal effect	±0.05%FS/K
Compensated temperature range of sensor	-20...80℃
Permissible load	≤50(V-12)Ω
Long term stability	0.1% FS/Year
Switch on delay	5s
Damping	0 to 100s, step: 0.1s
Rise time	200 ms (without consideration of electronic damping)
Self stability configuration	0 to 2%
Filter configured	0 to 160 uA
Communication resistance	Typ. 250Ω
Electrical protection	
Insulation resistance	>250MΩ
Short-Circuit protection	Permanent
Reverse polarity protection	No damage, and no function
Overvoltage protection	500 V
Application conditions	
Humidity	5...98%
Ambient and operation	-20-70℃
Storage	-30-85℃
Ingress protection	IP 68
Electromagnetic compatibility(EMC)	Interference immunity and interference emission according to GB/T17626.2-1998), compliance with IEC 61000-4-3:1995.
Materials	
Housing	Stainless steel 1.4404
Sensor	Ceramic AI_2O_3 99.9%
Seals	FPM / Others: on request
Cable Sheath	PVC
Others	
Installation position	Any
Weight	Standard model approx 1.3kg.

Dimensions

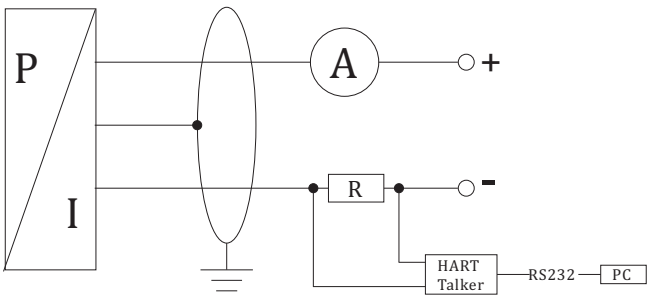


Dimensions of STK633 in mm
Diameter of transmitter is 38mm
Diameter of PVC cable is 7.4mm
Length of transmitter is 130mm

Electrical Connection

	Cable colors
2-wire-system:	
Supply+	Red
Supply-	Black
Ground	Yellow

Wiring Diagrams



Ordering code STK633

For example:STK633-2GTF11HS... -40...40Kpa

Model	Suffix Codes	Description
Output	※2----------	4...20mA/2-wire system
	3----------	1...5V/3-wire system
Pressure	※ G----------	Gauge
	A----------	Absolute
Sensor type	※T----------	Ceramic capacitive sensor
	K----------	Silicon piezoresistive sensor
	Q----------	Customer
Seals	※ F ----------	FKM
	C----------	Customer
Wetted parts material	※ 1----------	304SS
	2----------	316SS
Label	※1----------	Standard
	0----------	Customer
Communication	※ H----------	HART-protocol
	R----------	Rs232 Interface
Explosion	※S---- ----------	Intrinsically safety
	F----------	Flameproof
Range		Local measurement range Ceramic capacitive sensor:-0.1MPa~0~500pa~7Mpa Silicon piezoresistive sensor: -0.1~0~0.035~70MPa

This ordering code contains product specification; properties are not guaranteed. Subject to change without notice.