



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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ILLS series

Submersible Tank Gauging Level Transmitter



The ILLS is designed for use in continuous submersion in liquids such as water, oils and fuels in small tanks, where conventional mechanical level switches and sensors are not ideal and more level 'control' and measurement is required.

The probe uses a piezo-resistive silicon sensing technology, isolated from the media by a diaphragm within the stainless steel housing. It offers excellent stability, repeatability and resolution for applications where a small tank level is required, from as low as 1m through to 10 m high tanks.

Each device is temperature compensated, calibrated and supplied with a traceable serial number and calibration certificate.

- Piezo-resistive sensor
- Stainless steel housing and diaphragm
- Accuracy <0.5% FS BFSL
- Various outputs including Volts and mA.
- Pressure ranges from 1mWG to 10mWG

Options available on the ILLS transmitter.

Pressure range
Voltage or current output
Cable length

Suitable applications

Static tank level
Container or chamber level
Vehicle tank level
IBC, IBC Tote or Pallet Tank
Rainwater harvesting

Performance

Accuracy (Non-Linearity & Hysteresis)	<±0.5% / FS (BFSL)	
Setting Errors (offsets)	2-wire	Zero & Full Scale, <±0.5% / FS
	3-wire	Zero & Full Scale, <±0.5% / FS
Permissible Load	2-wire	$R_{max} = [(Supply-9min)/0.02]\Omega$
	3-wire	$R_{min} = 10k\Omega$
Influence Effects	Supply	<0.005% FS / 1V
	Load	0.05% FSO / kΩ

Custom versions can be made for particular applications.

Electrical Protection

Supply reverse polarity No damage/no function
Electromagnetic compatibility CE Compliant

Mechanical Stability

Shock 100g / 11s
Vibration 10g RMS (20 - 2000Hz)

Temperatures & Thermal Effects

Media Temperature -20°C (Non-freezing) to +60°C
Storage temperature -20°C to +70°C
Compensated temperature range 20°C±25°C
Thermal Zero Shift (TZS) <±0.04% /FS/°C
Thermal Span Shift (TSS) <±0.015% /°C

Material Specifications

Housing 303 Stainless Steel
"O" ring seals Viton
Diaphragm 316L Stainless Steel
Cable sheath material FEP standard
Media wetted parts Housing, "O" ring seal, diaphragm, cable sheath
Weight Transmitter: approx 75g
Cable: 48g per metre
Installation position Any, small zero shift when tilted through 90°
Operational life > 100x 10⁶ cycles
Insulation resistance 50MΩ@50Vdc

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ILLS series

Submersible Tank Gauging Level Transmitter

Pressure Ranges and Passive mV/V Outputs

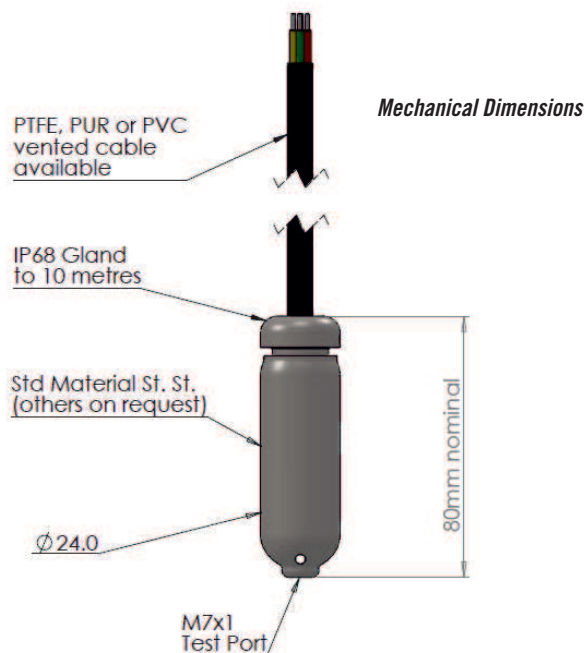
Nominal Pressure, Gauge	mW G	1	2.5	5	7	10
Permissible Overpressure	mW	20	20	10	50	50

Output Signals and Supply Voltages

Wire system	Output	Supply Voltage	Connection	Wire Colours
2-wire	4-20mA	9-32Vdc	+ve Supply -ve Supply Ground Cable Screen	Brown White Pink Green
3-wire	0.5-4.5Vdc non-ratiometric	9-32Vdc	+ve Supply -ve Supply +ve Output Ground Cable Screen	Brown White Yellow Pink Green

Care must be taken regarding screening and earthing when using voltage output

Part No	Pressure Range	Cable Length	Output
ILLS-G0100-5-003	0-1mWG (0-39"WG)	3M	4-20mA
ILLS-G0250-5-005	0-2.5mWG (0-98"WG)	5M	4-20mA
ILLS-G0500-5-007	0-5mWG (0-197"WG)	7M	4-20mA
ILLS-G0750-5-010	0-7.5mWG (0-276"WG)	10M	4-20mA
ILLS-G1000-5-015	0-10mWG (0-394"WG)	15M	4-20mA
ILLS-G0100-D-003	0-1mWG (0-39"WG)	3M	0.5 to 4.5V 3Wire
ILLS-G0250-D-005	0-2.5mWG (0-98"WG)	5M	0.5 to 4.5V 3Wire
ILLS-G0500-D-007	0-5mWG (0-197"WG)	7M	0.5 to 4.5V 3Wire
ILLS-G0750-D-010	0-7.5mWG (0-276"WG)	10M	0.5 to 4.5V 3Wire
ILLS-G1000-D-015	0-10mWG (0-394"WG)	15M	0.5 to 4.5V 3Wire



Installation Note.

The vented cable is fitted with a filter (shown below) to prevent the entry of moisture. If removed, ensure vent tube is positioned in a clean, dry area.

