

Submersible Level Transmitter

LTE100

Revision: 00

Feature

- Gauge, Absolute, Vacuum Models Available
- Submersible, General Purpose and Wash down Enclosures
- High Stability Achieved by CVD Sensing Element
- Current Output with LCD display

The LTE series features stability and accuracy in a variety of enclosure options. The LTE series extends the packaging options via an all welded stainless steel back end for demanding submersible and industrial applications. The LTE feature had proven CVD sensing technology, an ASIC (amplified units), and modular packaging to provide a sensor line that can accommodate specials while not sacrificing high performance.

Specifications

Input	
Pressure Range	Vacuum to 400 bar (6000psi)
Proof Pressure	2 x full Scale(FS)(1.5 x Fs for 400bar, >=5000psi)
Burst Pressure	>35 x Fs<=6bar (100psi); >20 x Fs<=60bar (1000psi); >5 x Fs<=400bar (6000psi);
Fatigue Life	Designed for more than 100 million FS cycles
Performance	
Long Term Drift	0.2% FS/year (non-cumulative)
Accuracy	0.2% FS typical (optional 0.15% FS)
Thermal Error	1.5% FS typical (optional 1% FS)
Compensated Temperatures	-20° to 80°C (-5° to 180°F)
Operating Temperatures	-40°to125°C(-22°to260°F)for elec. Codes A,B,C,1 -20° to 80°C(-5° to 180°F)for elec. Codes 2,D,G,3 -20° to 50°C(-5° to 125°F) for elec. Codes F,M,P Amplified units >100°C maximum 24 Vdc supply
Zero Tolerance	1% of Span
Span Tolerance	1% of span
Response Time	0.5ms
Mechanical Configuration	
Pressure port	See ordering chart
Wetted Parts	17-4 PH Stainless Steel
Electrical Connection	See ordering chart
Enclosure	Sensor: SS316 Enclosure: IP65
Vibration	70g, peak to peak sinusoidal, 5 to 2000 Hz (Random Vibration: 20 to 2000 Hz @=20g peak per MIL-STD.-180E Method 514.4)
Acceleration	100g steady acceleration in any direction 0.032% FS/g for 1bar(15psi) range decreasing logarithmically to 0.0007% FS/g for 400 bar (6000psi) range
Shock	20g, 11ms, per MIL-STD.-810E Method 516.4 Procedure I
Approvals	CE, UR (Ex model upon on optional)
Weight	Approx. 100 grams (additional cable; 75g/m)



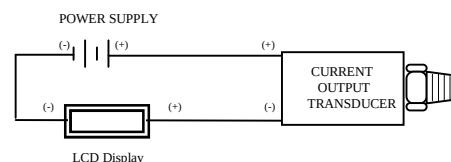
Electromagnetic Capability

Meets the requirement for CE marking of EN50081-2 for emissions and EN50082-2 for susceptibility.

Test Data :

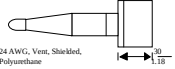
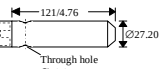
- EN61000-4-2 electrostatic Discharge, 8kV air discharge, 4kV contact discharge. Unit survived.
- ENV50140 Radiated RF Susceptibility. 10V/m, 80MHz-1GHz, 1kHz mod Maximum recorded output error was <±1%
- ENV50204 Radiated RF Susceptibility to Mobile Telephones. 10V/m, 900MHz. Maximum recorded output error was <±1%
- EN61000-4-4 Fast Burst Transient. 2kV, 5/50ns, 50kHz for 1 minute. Unit survived
- ENV50141 Conducted RF Susceptibility. 10Vms, 1kHz mod, 150kHz-80MHz. Maximum recorded output error was <±1%

Electrical Connection



Enclosure

DIMENSIONS

Moulded, Immersible Cable>150M 	Amplified Absolute 	Nose Cone – Black Acetal 	Nose Cone Sink Weight 
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Ordering Information

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LKS (M) SDN BHD – Your Automation partner
15, Jalan Anggerik Mokara 31/63, Kota Kemuning, Shah Alam, 40460 Selangor, Malaysia
Tel: 603-5124 0822 | Fax: 603-5124 0222 | info@lkssb.com.my | www.lkssb.com.my |



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Level Transmitter				
Output B – 4~20mA				
Pressure Datum G - Gauge A* - Absolute (*Max absolute range is 25bar.(≤300psi)				
Pressure Range – Meter RXX : R10 (Example : 10 mean the range is 0 -10 meter)				
Cable Range – Meter CXX : C15 (Example : 15 mean the cable is 15 meter)				
Notes: 1. When electrical connection is cable please select a cable length from Table1. When electrical connection is DIN or plug style “U” must be specified. 2. Where electrical connection –3 and cable length –U occur in part number, the unit will be flying leads (IP30) 3. Additional Pressure Ranges are available. Please consult factory. 4. Intrinsically safe transducers are available with amplified outputs only. (ETL, entity approved for Class 1, Division 1, Groups C & D, hazardous areas).				
↓	↓	↓	↓	↓
LTE - B - G - R10 - C15				

Distributor: