

TS-LS300 AutoLearn™

The TS-LS300 AutoLearn™ Line Leak Detection System learns the exact characteristics of each line, ensuring unparalleled accuracy. It can run independently or with any INCON TS-1001, TS-2001, TS-504 or TS-508 tank gauge.



Features

- Automatically learns exact pipeline characteristics.
- No pipe type and length programming required.
- Monitors flexible, steel and/or fiberglass pipelines in any combination up to certified maximum values.
- Works with submersible pumps generating 25 psi or more.
- Visual and audible alarm indications.
- Automatically performs 3.0 gph, 0.2 gph and 0.1 gph line tests.
- Positive submersible pump shut down in the event of a leak.
- Can be monitored through ATG and System Sentinel™.

Benefits

- Third party certified for 0% probability of false alarm.
- Eliminates the need for factory calibration or on-site field judgments for set up.
- For use in rigid, flex and rigid/flex piping configuration.
- Immediate notification of alarm condition.
- Eliminates need to perform separate annual line tests.
- Allows printed compliance reports.

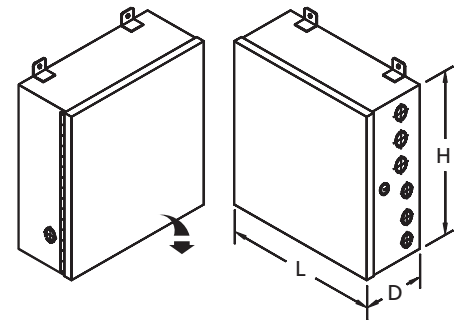
Capabilities

- The TS-LS300 performs a 3.0 gph leak and pressure test after every dispense. Upon detection of a failed test, the LS300 will alarm and positively shut down the affected turbine.
- The TS-LS300 continuously monitors pressurized lines for thermally stable conditions and performs a 0.2 gph monthly and 0.1 gph annual precision leak test during the thermally stable period.

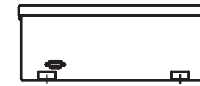


TS-LS300 Specifications

UNIT MODEL	CONSOLE	LEAK SENSING TRANSDUCER
Fluid compatibility		Motor fuels
Dimensions	11" x 12" x 4"	6.25" H x 2" NPT
Operating temperature	50° to 122° F (10° to 50° C)	-40° to 149° F (-40° to 65° C)
Number of lines monitored	1, 2, 3 or 4	1 per line
Power requirements	115 VAC +15%, -10%, 100 Watts maximum, 1 Amp maximum; 230 VAC +15%, -10%, 100 Watts maximum, 0.5 Amp maximum	10 to 20 VDC from console
Operating pressure		0 to 100 psi (0-689 kPa)
Cable, Belden		#9363-22 AWG, #9364-20 AWG or #9365-18 AWG
Maximum cable distance, sensor to console		500 feet (152.4 M)
Sensor port fitting		2" (50.8 MM) NPT Female
Sensor material		Body - anodized aluminum Active elements (sensor) - stainless steel
Safety rating		
Intrinsically safe	Associated apparatus Ⓜ II (1) G [EEx ia] IIA	Class 1, Div. 1, Group D Ⓜ II (1) G [EEx ia] IIA T4
Explosion proof		Class 1, Div. 1 Group D

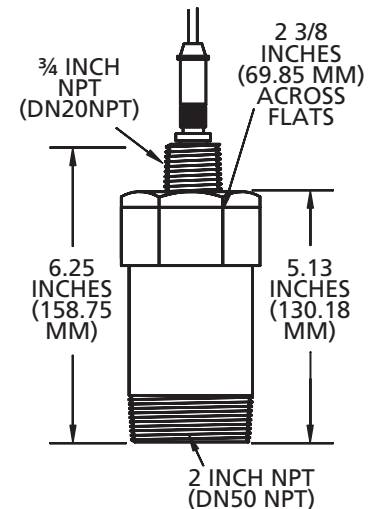


TS-LS300 CONSOLE
12" x 11" x 4"



PART NUMBER	DESCRIPTION
*115 VAC, 50/60 Hz Versions	
Intrinsically safe - For new installations where separate low voltage conduits can be used	
TS-LS300/2	Two line console with Line Calibration Kit
TS-LS300/3	Three line console with Line Calibration Kit
TS-LS300/4	Four line console with Line Calibration Kit
Explosion proof - For retrofit installations where only high voltage conduit is available	
TS-LS300E/2	Two line console with Line Calibration Kit
TS-LS300E/3	Three line console with Line Calibration Kit
TS-LS300E/4	Four line console with Line Calibration Kit
*230 VAC, 50/60 Hz Versions	
Intrinsically safe - For new installations where separate low voltage conduits can be used	
VS-LS300/2	Two line console with Line Calibration Kit
VS-LS300/3	Three line console with Line Calibration Kit
VS-LS300/4	Four line console with Line Calibration Kit
Explosion proof - For retrofit installations where only high voltage conduit is available	
VS-LS300E/2	Two line console with Line Calibration Kit
VS-LS300E/3	Three line console with Line Calibration Kit
VS-LS300E/4	Four line console with Line Calibration Kit
Interface cable - For connecting two AutoLearn™ consoles together	
TSSP-ALICBL	TSSP-ALICBL AutoLearn™ Interface Cable

*Note: All AutoLearn™ models include the TPI (Turbine Pump Interface) Module.



TS-LSU300 TRANSDUCER