

- ± 0.04% High Accuracy
- ±0.2% of URL Stability Guarantee for 12 Years
- 120:1 Rangeability
- Non-volatile Totalizer
- Tank Linearization
- 100 ms Total Response Time
- PID Control Capability
- Bi-directional Flow Measurement
- Advanced Diagnostics
- Largest Library of Function
- Instantiable Function Blocks
- Supported by DD, EDDL and FDT/ DTM
- Three Technology Options





301 - 302 - 303

PRESSURE TRANSMITTER

FOR PRESSURE, LEVEL AND FLOW APPLICATIONS







SP.

CE





















Features

- ± 0.04% high performance option;
- ± 0.2% of URL stability;
- 120:1 rangeability;
- Span as small as 50 Pa (0.2 inH₂O) up to a range limit of 40 MPa (5800 psi);
- Up to 52 MPa static pressure (7500 psi);
- Direct digital capacitance sensing (no A/D conversion);
- True non-interactive zero and span;
- Local zero and span adjustment;
- Remote calibration and parameterization;
- Transfer functions: linear, \sqrt{x} , $\sqrt{x^3}$ e $\sqrt{x^5}$;
- Tank linearization;
- Alphanumerical LCD indication;
- Small and lightweight;
- Explosion proof and weather proof housing approved (IP66/68 or IP66/68W);
- Intrinsically safe certification;
- Signal simulation for loop tests;
- Non-volatile flow totalization;
- Configurable user unit;
- Configurable local adjustment;
- EMC (Electromagnetic Compatibility) according to IEC61326-1:2006, IEC61326-2-3:2006, IEC61000-6-4:2006, IEC61000-6-2:2005;
- Write protection function;
- Three technology options: HART[®], FOUNDATION[™] fieldbus, PROFIBUS PA.

HART[®] - 4 to 20 mA

- Update output current in 100 ms with 0.75 µA resolution;
- Improved performance due to dedicated math co-processor;
- Multidrop operation mode;
- PID control function;
- Supports DTM and EDDL;
- Bi-directional flow measurement;
- With FMEDA analysis and MTBF of 244 years.

FOUNDATION[™] fieldbus

- 17 different types of function blocks for control strategies and advanced diagnostics;
- Up to 20 function blocks;
- Execution of up to 29 external links;
- 12 mA consumption;
- Dynamic block instantiation improves interchangeability;
- Fieldbus Foundation[™] registered and ITK approved;
- MVC (Multivariable Container) enabled;
- MTBF of 186 years.

PROFIBUS PA

- 12 mA consumption;
- Function blocks for analog input and totalization;
- Integrated to Smar ProfibusView or Simatic PDM;
- Supports DTM and EDDL;
- Profile 3.0 improves interchangeability;
- MTBF of 186 years.





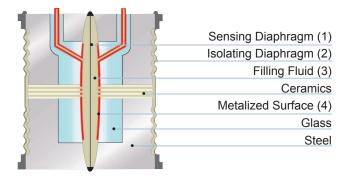












LD300 Series offers:

- ± 0.04% accuracy for high performance option; .
- ± 0.2% of URL stability guarantee for 12 Years; •
- 120:1 rangeability;
- Compact and lightweight; Multiple Protocol Options.

LD300 Series uses the field-proven technique of capacitance cell sensor measurement.

The sensor is shown in the picture above. The sensing diaphragm (1) is at the cell center. The diaphragm deflects as a result of the difference between the pressures applied to the left and right sides of the sensor. Pressure is directly applied to the isolating diaphragms (2), which provide resistance against process fluid corrosion. The pressure is transmitted to the sensing diaphragm through the filling fluid (3).

The sensing diaphragm is a moving capacitor plate while the two metallized surfaces (4) are fixed plates. The sensing diaphragm deflection results in capacitance variations between the moving and fixed plates.

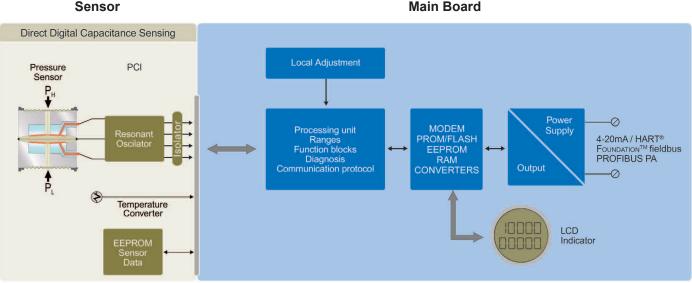


The electronic resonance circuit reads capacitance variation between the moving and fixed plates. The CPU conditions the measurement and communicates according to protocol. As there is no A/D conversion, errors and drifts during conversions are eliminated. A temperature sensor provides temperature compensations, which combined with the sensor precision, results in high accuracy and rangeability for the LD300 Series.

The process variable, as well as monitoring and diagnostics information, are provided by digital communication protocol.

The available protocol options are: HART[®], FOUNDATION[™] fieldbus and PROFIBUS PA.

These protocols are easily changed by either replacing the internal electronic board or downloading the firmware. A HART[®] transmitter can be changed into a FOUNDATION[™] fieldbus / PROFIBUS PA device by replacing the internal card, and vice versa. A FOUNDATION[™] fieldbus device can be changed into a PROFIBUS PA device and vice versa, by simply downloading a new firmware.





Differential Pressure - LD300D and LD300H

Pressure is applied to high and low sides and differential pressure is measured. High static pressure is supported by **LD300H** models.

Flow - LD300D and LD300H

The differential pressure is generated by a primary flow element and the square root function computes the flow measurement.

Absolute Pressure - LD300A

The pressure is measured at the high side of the transmitter and the low side is at zero absolute reference to a sealed chamber with vaccum.

Gage Pressure - LD300M

The pressure is measured at the high side of the transmitter and the low side is open to the atmosphere, providing true local atmospheric reference.

Level - LD300L

The transmitter has a flange mounted unit for direct installation on vessels. Extended diaphragms are also available. For closed tank low side can compensate for ullage pressure.

Remote Seals

SR301 is a remote seal designed for chemical and thermal isolation. **LD300 Series** can be assembled with separate diaphragm seals in either one or both sides of the sensor. SR301 options include: "T" Type Flanged (SR301T), Threaded (SR301R), Pancake (SR301P) where those three models with an optional flush connection, Sanitary (SR301S), Flanged with Extension (SR301E) and Pancake with Extension (SR301Q).

The flush connection enables deposits removal without disconnecting the seal.

- Typical applications for LD300 Series with remote seals:
- Corrosive process fluid;
- Suspended solids or viscous process fluid;
- Process fluids that may freeze or solidify;
- Process temperatures higher than supported by transmitters;
- Replaces impulse lines and condensate legs;
- Bubble system.

See the Smar SR301 Series catalog for further information regarding application and specification.

Sanitary Transmitter

LD300S Series are specially designed for food and other applications where sanitary connections are required. With threaded or "tri-clamp" connections, it allows for easy and quick maintenance and cleaning. Tri-clamp and other connections are compliant to 3A-7403 standard for food grade applications.

For further information, see the Smar SR301 Series Catalog.

Manifold Valves















LD300 Series are available in three different technologies: HART[®] (**LD301**), FOUNDATIONTM fieldbus (**LD302**) and PROFIBUS PA (**LD303**).

These instruments can be configured with Smar software and other manufacturers' configuration tools.

Local adjustment is available in all **LD300 Series**. It is possible to configure zero and span, totalization, set point and other control functions using the magnetic screwdriver.

Smar has developed AssetView, which is a user-friendly Web Tool that can be accessed anywhere and anytime using an Internet browser. It is designed for management and diagnostics of field devices to ensure reactive, preventive, predictive and proactive maintenance.



HART[®] - LD301

LD301 (HART[®] protocol) can be configured by:

- Smar CONF401 for Windows;
- Smar DDCON100 for Windows;
- Smar HPC301 and HPC401 for several models of Palm;
- Other manufacturers' configuration tools based on DD (Device Description) or DTM (Device Type Manager), such as AMS[™], FieldCare[™], PACTware[™], HHT275 and HHT375, PRM Device Viewer.

For **LD301** management and diagnostics, AssetView ensures continuous information monitoring.



HPC401

FOUNDATION[™] fieldbus - LD302

LD302 utilizes the FOUNDATION[™] fieldbus H1 protocol, an open technology that allows any H1 enabled configuration tool to configure this device.

Syscon302 (System Configuration Tool) is a software tool used to configure, maintain and operate the field devices. Syscon offers efficient and friendly interaction with the user, using Windows.

Configuration tools such as AMSTM, FieldCareTM and HHT375 can configure **LD302** devices. DD (Device Description) and CF (Capability File) files can be downloaded at either the Smar or Fieldbus FoundationTM website.

LD302 supports complex strategies configurations due to the high capacity and variety of dynamic instantiable function blocks.

Seventeen different types of function blocks are supported, and up to 20 function blocks can be running simultaneously.

Maintenance procedures with AssetView diagnostics and status information from FOUNDATION[™] fieldbus result in a safer plant with higher availability.



PROFIBUS PA - LD303

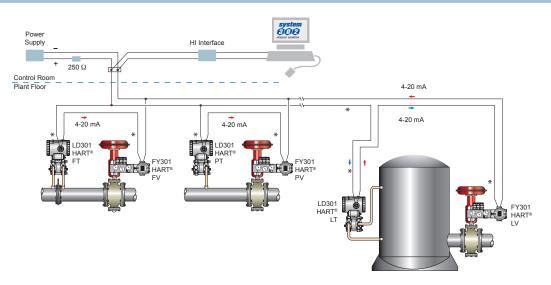
LD303 (PROFIBUS PA protocol) can be configured using Smar ProfibusView or Simatic PDM and by the FDT (Field Device Tool) and DTM (Device Type Manager) concept tools, such as FieldCare[™] and PACTware[™]. It can also be integrated by any PROFIBUS System using the GSD file.

PROFIBUS PA also has quality and diagnostic information, improving plant management and maintenance. Conforms to profile 3.0.

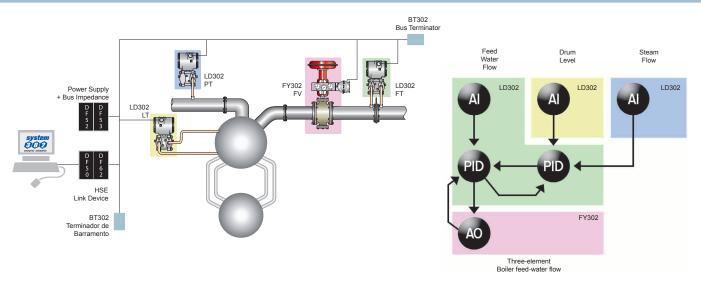
FIRST IN FIELDBUS	Smar FIRST IN FIELDBUS	10 LD303	
Configuration Constant	Configuration	Calibration 🛨 🎉 Disgnostic	🛨 🔎 Geostal
Diagnosis I fadware falme of the electronic I fadware falme enchaics I fadware enchaics I	Totalizer Set Alara/Varning Linits Uppe Linit Alara Uppe Linit Varning Lower Linit Alara Lower Linit Alara Lower Linit Hysteresis	Set Fail Sale Vi Fail Sale Type	dues
Selication failed IDENT_NUMBER_Violation		Apply	
	Basic Settings	Advanced Settings	Config Block Mode



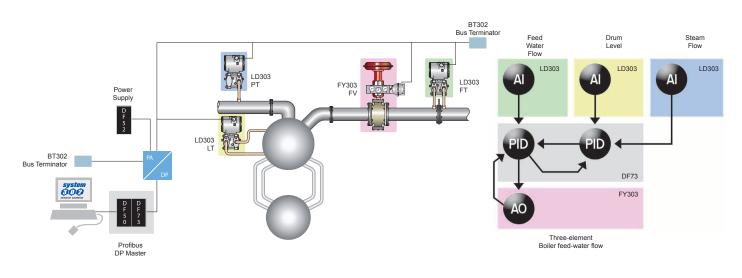
HART[®] - LD301



FOUNDATION[™] fieldbus - LD302



PROFIBUS PA- LD303



Functional Specifications

Process Fluid	Liquid, gas or steam.
Output and Communication Protocol	HART [®] : Two-wire, 4-20 mA according to NAMUR NE43 specification, with superimposed digital communication (HART [®] Protocol). Foundation [™] fieldbus and PROFIBUS PA:
	Digital only. Complies with IEC 61158-2:2000 (H1): 31.25 kbit/s voltage mode, bus powered.
Power Supply / Current Consumption	HAR1°: 12 to 45 Vdc. Transient Suppressor Vmax = 65 Vp; Differential mode - bi-directional; Low current leak and capacitance; meets the standards: IEEE61000-4-4 and IEEE61000-4-5; Less than 5 ns response time. FOUNDATION™ fieldbus and PROFIBUS PA: Bus powered: 9 to 32 Vdc. Quiescent current consumption: 12 mA.
Indicator	4 ¹ / ₂ -digit numerical and 5-character alphanumerical LCD indicator (optional).
Hazardous Area Certifications	HART [®] , FOUNDATION [™] fieldbus and PROFIBUS PA: Intrinsically Safe (FM, CSA, NEMKO, EXAM, CEPEL, NEPSI), explosion proof (FM, CSA, NEMKO, CEPEL, NEPSI), dust ignition proof (FM) and non-incendive (FM). FOUNDATION [™] fieldbus and PROFIBUS PA: FISCO Field Device Ex ia IIC T4
	FNICO Field Device Ex n1 IIC T4
European Directive Information	Authorized representative in European Community Smar Gmbh-Rheingaustrasse 9-55545 Bad Kreuzanach PED Directive (97/23/EC) - Pressure Equipment Directive This product is in compliance with the directive and it was designed and manufactured in accordance with sound engineering practice using several standards from ANSI, ASTM, DIN and JIS. EMC Directive (2004/108/EC) - Eletromagnetic Compatibility The EMC test was performed according to IEC standard: IEC61326-1:2006, IEC61326-2-3:2006, IEC61000-6-4:2006, IEC61000-6-2:2005. For use in environment only. Keep the shield insulated at the instrument side, connecting the other one to the ground if necessary to use shielded cable. ATEX Directive (94/9/EC) - Equipment and protective systems intended for use in potentially explosive atmospheres This product was certified according European Standards at NEMKO and EXAM (old DMT). The certified body for manufacturing quality assessment is EXAM (number 0158). LVD Directive 2006/95/EC - Electrical Equipment designed for use within certain voltage limits According the LVD directive Annex II the equipment under ATEX "Electrical equipment for use in an explosive atmosphere" directive are excluded from scope from this directive. The EC declarations of conformity for all applicable European directives for this product can be found at www.smar.com.
Zero and Span	Noninteractive, via digital communication or local adjustment.
Adjustments Failure Alarm (Diagnostics)	Detailed diagnostics through communication for all protocols. HART®: In case of sensor or circuit failure, the self diagnostics drives the output to 3.6 or 21.0 mA, according to the user's choice and NAMUR NE43 specification. FOUNDATION™ fieldbus and PROFIBUS PA: For sensor circuit failures, events are generated and status is sent to link outputs. Detailed diagnostics are available in the contained parameters.





Temperature Limits	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$
Turn-on Time	HART [®] : Performs within specifications in less than 5 seconds after power is applied to the transmitter. FOUNDATION [™] fieldbus and PROFIBUS PA: Performs within specifications in less than 10 seconds after power is applied to the transmitter.
Configuration	 HART[®]: By digital communication (HART[®] protocol) using the configuration software CONF401, DDCON100 (for windows), HPC301 or HPC401 (for Palm). It can also be configured using DD and FDT/DTM tools, and can be partially configured through local adjustment. FOUNDATION[™] fieldbus and PROFIBUS PA: Basic configuration may be done using the local adjustment magnetic tool if device is fitted with display. Complete configuration is possible using configuration tools.
Volumetric Displacement	Less than 0.15 cm ³ (0.01 in ³)
Overpressure and Static Pressure Limits	From 3.45 kPa abs. $(0.5 \text{ psia})^*$ to: 0.5 MPa (72.52 psi) for range 0 8 MPa (1150 psi) for ranges 1 16 MPa (2300 psi) for ranges 2, 3 & 4 32 MPa (4600 psi) for models H & A5 40 MPa (5800 psi) for model M5 52 MPa (7500 psi) for model M6 * except the LD300A model Flange Test Pressure: 60 MPa (8570 psi) For ANSI/DIN Level flanges (LD300L models): 150 #: 6 psia to 235 psi (-0.6 to 16 bar) at 199.4 °F (93 °C) 300 #: 6 psia to 620 psi (-0.6 to 43 bar) at 199.4 °F (93 °C) 600 #: 6 psia to 1240 psi (-0.6 to 85 bar) at 199.4 °F (93 °C) PN10/16: -60 kPa to 1.02 MPa at 212 °F (100 °C) PN25/40: -60 kPa to 2.55 MPa at 212 °F (100 °C) The above pressures will not damage the transmitter, but a new calibration may be necessary.
Humidity Limits	0 to 100% RH (Relative Humidity)
Damping Adjustment	User configurable from 0 to 128 seconds (via digital communication).

Performance Specifications

	For range 0, and differential or gage models and 316L SST or hastelloy diaphragm with silicon or halocarbon filling fluid: 0.2 URL ≤ span ≤ URL: ± 0.1% of span 0.05 URL ≤ span < 0.2 URL: ± [0.025+0.015 URL/span]% of span
	For ranges 1, 2, 3, 4, 5 or 6, differential or gage models, and 316L SST or hastelloy diaphragm with silicon or halocarbon filling fluid: 0.1 URL ≤ span ≤ URL: ± 0.075% of span 0.025 URL ≤ span < 0.1 URL: ± [0.0375+0.00375.URL/span]% of span 0.0083 URL ≤ span < 0.025 URL: ± [0.0015+0.00465.URL/span]% of span
Accuracy	For ranges 2 to 6 and absolute model. For tantalum or monel diaphragm. For fluorolube filling fluid: 0.1 URL ≤ span ≤ URL: ± 0.1% of span 0.025 URL ≤ span < 0.1 URL: ± 0.05[1+0.1 URL/span]% of span 0.0083 URL ≤ span < 0.025 URL: ± [0.01+0.006 URL/span]% of span
	For range 1 and absolute model: ± 0.2% of span
	For ranges 2, 3 or 4 and level model and 316L SST diaphragm with silicon or halocarbon filling fluid with maximum pressure matching the flange pressure class: 0.1 URL ≤ span ≤ URL: ± 0.075% of span 0.025 URL ≤ span < 0.1 URL: ± [0.0375+0.00375.URL/span]% of span 0.0083 URL ≤ span < 0.025 URL: ± [0.0015+0.00465.URL/span]% of span
	Linearity effects, hysterese and repeatability are included.
Stability	 For ranges 2, 3, 4, 5 and 6: ± 0.15% of URL for 5 years at 20 °C temperature change and up to 7 MPa (1000 psi) of static pressure For ranges 0 and 1: ± 0.2% of URL for 12 months at 20 °C temperature change and up to 100 kPa (1 bar) of static pressure For Level transmitters: ± 0.2% of URL for 12 months at 20 °C temperature change
	For ranges 2, 3, 4, 5 and 6:
Temperature	 0.2 URL ≤ span ≤ URL: ± [0.02% URL + 0.06% span] per 20 °C (68 °F) 0.0085 URL ≤ span < 0.2 URL: ± [0.023% URL + 0.045% span] per 20 °C (68 °F) For range 1: 0.2 URL ≤ span ≤ URL: ± [0.08% URL + 0.05% span] per 20 °C (68 °F) 0.025 URL ≤ span < 0.2 URL: ± [0.06% URL + 0.15% span] per 20 °C (68 °F) For range 0:
Effect	0.2 URL ≤ span ≤ URL: ± [0.15% URL + 0.05% span] per 20 °C (68 °F) 0.05 URL ≤ span < 0.2 URL: ± [0.1% URL + 0.3% span] per 20 °C (68 °F) For LD300L:
	6 mmH ₂ O per 20 °C for 4" and DN100 17 mmH ₂ O per 20 °C for 3" and DN80 Consult for other flange dimensions and fill fluid.
Static Pressure Effect	Zero error: For ranges 2, 3, 4, 5 and 6: $\pm 0.033\%$ URL per 7 MPa (1000 psi) For range 1: $\pm 0.05\%$ URL per 1.7 MPa (250 psi) For range 0: $\pm 0.1\%$ URL per 0.5 MPa (5 bar) For Level transmitters: $\pm 0.1\%$ URL per 3.5 MPa (500 psi) The zero error is a systematic error that can be eliminated by calibrating at the operating static pressure. Span error: For ranges 2, 3, 4, 5 and 6: correctable to $\pm 0.2\%$ of reading per 7 MPa (1000 psi)
	For range 1 and level transmitters: correctable to $\pm 0.2\%$ of reading per 7.5 MPa (500 psi) For range 0: correctable to $\pm 0.2\%$ of reading per 0.5 MPa (5 bar)
Power Supply Effect	± 0.005% of calibrated span per volt.
Mounting Position Effect	Zero shift of up to 250 Pa (1 inH $_2$ O) which can be calibrated out. No span effect.
Electromagnetic Interference Effect	Approved according to IEC61326-1:2006, IEC61326-2-3:2006, IEC61000-6-4:2006, IEC61000-6-2:2005.



Physical Specifications

Electrical Connection	½ - 14 NPT M20 X 1.5 PG 13.5 DIN	$\frac{3}{4}$ – 14 NPT (with 316 SST adapter for 1/2 - 14 NPT) $\frac{3}{4}$ – 14 BSP (with 316 SST adapter for 1/2 - 14 NPT) $\frac{1}{2}$ – 14 BSP (with 316 SST adapter for 1/2 - 14 NPT)
Process Connection	For L models see	14 NPT (with adapter). Ordering Code. e for more options.
Wetted Parts	Drain/Vent Valves 316 SST, Hastelloy Flanges: Plated Carbon Stee or Monel 400. Wetted O-Rings (Buna-N, Viton™, F	by C276, Monel 400 or Tantalum.
Nonwetted Parts	housing.Complies Note: *The IP66/68W sealin tested for 200h to accordin Blank Flange: When flange adap otherwise blank fla Level Flange (LD 316L SST, 304 SS Fill Fluid: Silicone, Fluorolub Cover O'Ring: Buna-N Mounting Bracket Plated Carbon Ste Accessories (bolts: Flange Bolts and Plated Carbon Ste	with polyester painting, epoxy painting or 316 SST - CF8M (ASTM - A351) with NEMA 4X/6P, IP66 ou IP66W*, IP68 ou IP68W*. Ig test (immersion) was performed at 1 bar for 24 hours. For any other situation, please consult Smar. IP66/68W g NBR 8094 / ASTM B 117 standard. ter and Drain/Vent material is Carbon Steel, blank flange is in Carbon Steel, nge is in 316 SST CF8M (ASTM - A351). BOOL): T, Hastelloy C276 and Plated Carbon Steel. e, Krytox, Halocarbon 4.2 or Fomblim oils. t: el or 316 SST. , nuts, washers and U-clamps) in Carbon Steel or 316 SST. Nuts: el, Grade 8 or 316 SST. ions: Carbon Steel ASTM A193 B7M.
Mounting	c) Manifold Valve ind) Directly on pipin	al mounting bracket for surface or vertical/horizontal 2"-pipe (DN 50). ntegrated to the transmitter. g for closely coupled transmitter/orifice flange combinations.
Approximate Weights		nodels, except L models. b to 20 lb): L models depending on the flanges, extension and materials.
Control Functions Characteristics (Optional)	Foundation [™] fieldl Resource (RS), Tra Control (PID), Adva (ISEL), Signal Cha (LLAG), Output Sig PROFIBUS PA	and Totalizer (TOT) Dus ansducer (TRD), Diagnostics Transducer Block (DIAG), Analog Input (AI), PID unced PID Control (APID), Arithmetic (ARTH), Integrator (INTG), Input Selector racterizer (CHAR), Analog Alarm (AALM), Timer and Logic (TIME), Lead Lag nal Selector and Dynamic Limiter (OSDL), Constant (CT) and Density (DENS). IY), Transducer (TRD), Analog Input (AI) and Totalizer (TOT)



LD300 Series

Application	Differential Gage														
Range	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$														
Diaphragm Material	316L SST Hastelloy C276														
Fill Fluid	Silicone														

High Performance option (code L1) is available under the following conditions only:

Performance Specifications (Code L1)

Reference Conditions	Span starting at zero, temperature of 25 °C (77 °F), atmospheric pressure, power supply of 24 Vdc, silicone oil fill fluid, isolating diaphragms in 316L SST and digital trim equal to lower and upper range values.
Accuracy	For range 2: 0.2 URL ≤ span ≤ URL: ± 0.04% of span 0.05 URL ≤ span < 0.2 URL: ± [0.021667 + 0.003667 URL/span]% of span 0.0085 URL ≤ span < 0.05 URL: ± [0.0021 + 0.004645 URL/span]% of span For range 3 and 4: 0.1 URL ≤ span ≤ URL: ± 0.05% of span 0.05 URL ≤ span < 0.1 URL: ± [0.005 + 0.0045 URL/span]% of span 0.05 URL ≤ span < 0.1 URL: ± [0.005 + 0.0045 URL/span]% of span
Stability	 For range 2: ± 0.05% of URL for 6 months For range 3: ± 0.075% of URL for 12 months For range 4: ± 0.1% of URL for 24 months ± 0.2% of URL for 12 years, at 20 °C temperature change and up to 7 MPa (1000 psi) {70 bar} of static pressure, environment free of hydrogen migration.
Temperature Effect	From -10 °C to 50 °C, protected from direct sun radiation: 0.2 URL ≤ span ≤ URL: ± [0.018% URL + 0.012% span] per 20 °C (36 °F) 0.0085 URL ≤ span < 0.2 URL: ± [0.02% URL + 0.002% span] per 20 °C (36 °F)
Static Pressure Effect	 Zero error: ± 0.025% URL per 7 MPa (1000 psi) The zero error is a systematic error that can be eliminated by calibrating at the operating static pressure. Span error: Correctable to ± 0.2% of reading per 7 MPa (1000 psi).

Hastelloy is a trademark of the Cabot Corp.

Fluorolube is a trademark of Hooker Chemical Corp.

Foundation is a trademark of Fieldbus Foundation. Monel is a trademark of hiternational. Viton and Teflon are trademarks of E. I. DuPont de Nemours & Co. HART® is a trademark of HART® Communication Foundation. Smar Pressure Transmitters are protected by US patent number 6,433,791





2 Found	T®& 4-20 mA DATION™ fieldbus FIBUS PA										
COD.		Range Min	Limits Max	Min. Span	Unit	Rang	e Limits Max	Min. Span	Unit		
D0 D1 D2 D3 D4	Differential and Flow Differential and Flow Differential and Flow Differential and Flow Differential and Flow	-1 -5 -50 -250 -2500	1 50 250 2500	0.05 0.13 0.42 2.08 20.83	kPa kPa kPa kPa kPa	-2 -20 -3 -36	4 20 200 36	0.2 0.5 1.67 0.3 3	inH ₂ O inH ₂ O inH ₂ O psi psi		
M0 M1 M2 M3 M4 M5 M6	Gage Gage Gage Gage Gage Gage Gage	-1 -5 -50 -100 -100 -0.1 -0.1	1 50 250 2500 25 40	0.05 0.13 0.42 2.08 20.83 0.21 0.33	kPa kPa kPa kPa kPa MPa MPa	- -2 -20 - 14.5 - 14.5 - 14.5 - 14.5	20 200 36 360 3600	0.2 0.5 1.67 0.3 3 30 48.3	inH2O inH2O inH2O psi psi psi psi	Note: The range can be extended up to 0.75 LRL and 1.2 URL with small degradation of accuracy.	
A1 A2 A3 A4 A5 A6	Absolute Absolute Absolute Absolute Absolute	0 0 0 0 0	5 50 250 2500 25 40	2.00 2.50 5.00 20.83 0.21 0.33	kPa kPa kPa kPa MPa MPa		37 7.2 36 360 3600 5800	14.8 0.36 0.73 3 30 48.3	mmHga psia psia psia psia psia		
H2 H3 H4 H5	Differential - High Static Pressure Differential - High Static Pressure Differential - High Static Pressure Differential - High Static Pressure COD. Diaphragm Material and Fill Flui	-50 -250 -2500 -25	50 250 2500 25	0.42 2.08 20.83 0.21	kPa kPa kPa MPa	- 20 - 3 - 36 - 360	i 36 360	1.67 0.3 3 30	inH ₂ O psi psi psi		
	1 316L SST Silicone Oil (9) 2 316L SST Inert Fluorolube Oil 3 Hastelloy C276 Silicone Oil (1)(9) 4 Hastelloy C276 Inert Fluorolube Oil 5 Monel 400 Silicone Oil (1)(3) 8 Tantalum Silicone Oil (1)(3)(9) 8 Tantalum Inert Fluorolube Oil COD. Flange(s), Adapter(s) and	(12)(15) (1)(2)(15 9) (2)(3)(15 Drain/Ve	A D G K M nt Valvo		Gold Plate		ÒiÍ (3)(15 Oil (1)(3) Oil (3)(15 Oil (1)(3)	Q (15) R (15) S (15) U (15)	316 L SS Hastelloy Tantalum 316 L SS	C276 Inert Halocarbon 4.2 Oil (2) (3) (Inert Halocarbon 4.2 Oil (2) (3) (
	C Plated CS (Drain/Vent In S) F Monel 400 Plated Bar (for H H Hastelloy C276 (CW-12MW I 316 SST - CF8M (ASTM A) COD. Wetted O'Rings Ma	HF applica /, ASTM - / 351)	tions)		N P		Л (ASTM			Hastelloy C276) (1) DF (Kynar) Insert (5) (7) (11)	
	0 Without O'Rings B Buna-N COD. Drain/Vent Po	ł		iylene - Prop Irez (12)	ylene (12))	T Teflo V Viton			Note: O'Rings are not available on the sides with Remote Seals.	
	0 Without Drain A Drain/Vent (O COD. Local II 0 Without			D Bottom Top Note: For better drain/vent operation, vent valves are strongly recommended. Drain/vent valve not available on the sides with remote seals. With Digital Indicator Vent value Vent value							
	1 1/2 2 CF 3 Re 5 1/2 6 Lo 7 Plu 8 Lo 9 Re	- 18 NPT - 14 NPT 16 (Withou mote Seal - 14 NPT v Volume g for Rem v Volume mote Seal	(Withou (With A dapt (With F Axial wi Flange ote Sea Flange (Low V	ut Adapter) dapter) ter) Plug) (3) (8) ith PVDF Inse I - Welded olume Flange		 T 1/2 – 14 BSP (With Adapter) U Low Volume Flange for Level Welded V Manifold Valve integrated to the transmitter 					
		1/2 3/4 - 3/4 -	14 NPT 14 NPT 14 BSP 14 BSP	(with 316 SS (with 316 SS	ST adapte ST adapte ST adapte	r for 1/2 - 14 NI r for 1/2 - 14 NI r for 1/2 - 14 NI 301 and exclu	PT) (6) PT) (6)			M20 X 1.5 (17)(18) PG 13.5 DIN (17)(18) User's specification	
			5 6	Without brac Carbon stee 316 SST bra L type, carbo L type, 316 S	cket I bracket acket and on steel b	racket and acce tet and accesso	; (16) ssories (1		9 L type A Flat, 3	on steel bracket. Accessories: 316 SST (16) e, carbon steel bracket. Accessories: 316 SST (1 304 SST bracket and 316 SST accessories s specification	
1 - D2		1	2 /	*			MODEL N	IUMBER			
2 - D2 3 - D2 e blank	1 I - B U 1 0 - 0 I I - B U 1 I I I I I I B U 1 I		2	*							
ot availab ot availab ot recomn aximum p ptions not rain/Vent i	E MR-01-75/ISO 15156 recommendations. le for absolute models nor for vacuum appli le for range 0 and 1. nended for vacuum service. ressure 24 bar. : certified for use in hazardous locations. not applicable. seal only 316 SST - CF8M (ASTM A351) fl		ailable	7/16 UNF.		(13) Avail for high st (14) Only (15) Inert (16) Not a (17) This	ble for dif atic pressi available Fluid: Saf oplicable idapter ha	ure transmitt for flange wi e Oxygen Se for saline at as certified fo as certified fo	ers , range th PVDF (ervice. mosphere or use in E or use in E	Explosion Proof (CEPEL). Explosion Proof (NEPSI, NEMKO, EXAM).	

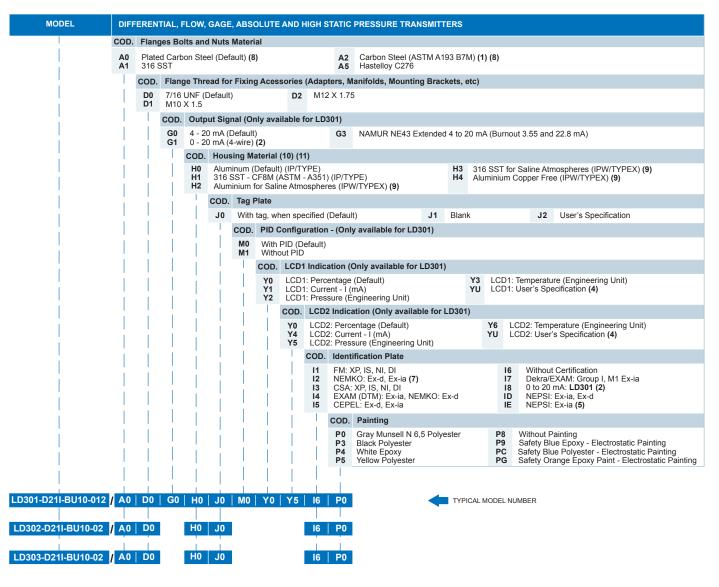
- (5) Maximum pressure 24 bar.
 (6) Options not certified for use in hazardous locations.
 (7) Drain/Vent not applicable.
 (8) For remote seal only 316 SST CF8M (ASTM A351) flange is available 7/16 UNF.
 (9) Silicone Oil is not recommended for oxygen (O₂) or Chlorine service.
 (10) Only available for differential pressure transmitters.
 (11) O-ring should be Viton or Kalrez.

smar

12

Ordering Code (Continued)





Optional Items

Burn-out (Only available for LD301)	BD - Down Scale (According to NAMUR NE43 specification) BU - Up Scale (According to NAMUR NE43 specification)
Special Applications	C1 - Degrease Cleaning (Oxygen or Chlorine Service) (5)
High Performance	L1- 0.04% accuracy (3)
Square Root Extraction (Only available for LD301D)	M3 - Configured with Square Root Extraction
Special Features	ZZ - User's specification

Notes:

- (1) Meets NACE MR-01-75/ISO 15156 recommendations.
- (2) Without Explosion Proof or Intrinsic Safety approvals.(3) Only available for differential and gage pressure models.
- (4) Values limited to 4 1/2 digits; unit limited to 5 characters.
- (f) Values indication of the largest paint indicate of orbital activity.
 (f) Degrease cleaning not available for carbon steel flanges.
 (f) Only available for LD302 and LD303 models.
 (7) Only available for LD301.
 (8) Not applicable for saline atmosphere.

(9) IPW/TYPEX tested for 200 hours according to NBR 8094 / ASTM B 117 standard. (10) IPX8 tested in 10 meters of water column for 24 hours.(11) Ingress Protection:

Products	CEPEL	NEMKO / EXAM	FM	CSA	NEPSI
LD300	IP66/68/W	IP66/68/W	Type 4X/6P	Type 4X	IP67



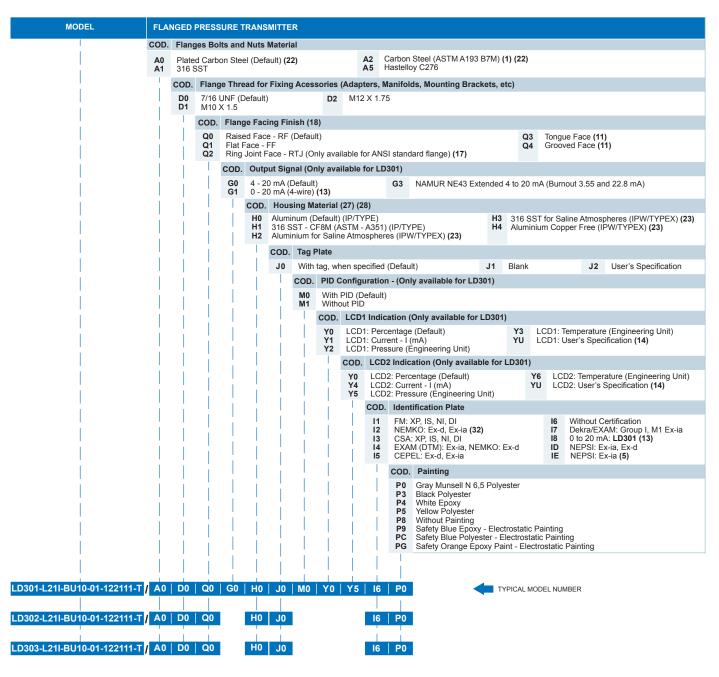
MODEL FLANGED PRESSURE TRANSMITTE

		BUS	n™ fieldbu: PA	5													
COL	D.		Range Min.	Limits Máx.	Min. S	Span	Unit.		Rang Min.	le Limits Máx.	Min. Sp	an	Unit.				
L2 L3			-50 -250	50 250		1.25 2.08	kPa kPa		-200 -36	200 36	0.		inH ₂ O psi	Note: The range car with small degradation		0 0.75 LRL and 1.2 UR	
L4 L5	L I		-2500 -25000	2500 25000	20	0.83 8.30	kPa kPa		-360 -3625	360 3625		3	psi psi	must be limited to th		e upper range value	
	С	OD.	Diaphragr	n materi	al and Fi	II Fluic	d (Low Si	de)									
		2	316L SST 316L SST	Iner	cone Oil (rt Fluorolu	ube Oil	(3) (26)		8 Tantalu 9 316L S	ST F	ert Fluorolı omblim Oil		(3) (26)	K Monel 400 M Monel 400 Gold	Plated Silicone C		
		4	Hastelloy C Hastelloy C	276 Iner	rt Fluoroli	ube Óil	(1) (3) (2	6)	A Monel D 316L S	ST In	omblim Oil iert Krytox (ÒiÍ (26)		P Monel 400 Gold Q 316L SST	Inert Halo	carbon 4.2 Oil (26)	
			Monel 400 Tantalum	Silio	cone Oil (cone Oil ((1) (2) (2)			G Tantalu	oy C276 In Im In	ert Krytox (ert Krytox (26)	R Hastelloy C276 S Tantalum		carbon 4.2 Oil (1) (26) carbon 4.2 Oil (26)	
		-		•	apter and	l Drain	/Vent Val	ves ma	terial (Low								
			c Plate				nless Ste applicati			M	316 SST Monel 40	00 (1)		– A351) – A351) (Drain/Vent in Ha	estellov (276) (1)		
							/, ASTM –		(1)	N P				– A351) (Diality vent in The – A351) Flange with PVD) (4) (5)	
		l I	COD.		d O'Ring t O'Rings		rial (Low		hylene - Pro	nylene		т	Teflon	Noto: (O'rings are not ava	ilable on the	
			B	Buna-N					alrez	руюне			Viton		vith remote seals.		
		l I			Drain/Ve Without D		sition (Lo ent	w Side)	D	Low		Nota: For	better Drain/Vent operation	on, vent valves are	stronaly recommend	
		l I		A [Drain/Ven	nt (Opp	osite to P	rocess	Connection)	Ū	Upper			t valve are not available o			
		l I					dicator dicator			1 With E	Digital indica	ator					
					CO	D. F	Process C	connect	tion (Low S	ide)							
		1		i.	0 1	1/2	- 14 NPT	Witho	ut Adapter) ut Adapter)		7 F	Plug for	Remote S		V Without Conn	Flange for Level Welde ection (Mounted with G	
				i.	23	Re	16 (Witho mote Sea	I (With F	Plug) (7)	-+ (0) (4) (0)	9 F	Remote \$	Seal (Low	ge - Welded Volume Flange) (3) (7)	Without Conn	ection (Absolut Refere	
		1		i.	5	_			th PVDF Inse Connection		1 1	/2 14 B	SP (With	Adapter)			
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				i i	i.			1 With	_	Zero and Sp							
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		i i	i i	i.	- 1			Р	1.1/2" 150 # 1.1/2" 300 #	(ANSI B16	.5) N	3" 600		B16.5 RTJ) 7 DN 7	80 PN 10/40 100 PN 10/16	L JIS 80A 20K (H JIS 100A 10K (
		i i	i i	i.				9	1.1/2" 600 # 2" 150 # (AN 2" 300 # (Al	ISI B16.5)	4	4" 300) # (ANSI) # (ANSI) # (ANSI	B16.5) S JIS	100 PN 25/40 40A 20K (21) 50A 10K (21)	M JIS 100A 20K Z User's specifica	
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		İ.	i i		j I						3 DC 7	04 Silic		T Syltherm 800 C N Neobee M20 Pr 4 Krytox Oil		G Glycerin + Water B Fomblim 06/06	
i i		Ì.			j I						COD			sing Material			
i i		Ì.			j I						0		out Lower		3 Super Duplex 4 Duplex (UNS	x (UNS 32750) (11)	
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* Leave it blank when there are not optional items.

Ordering Code (Continued)





Optional Items

Burnout	BD - Down Scale (Acc	cordance to NAMUR NE43 specification)	BU -	Up Scale (Accordance to NAMUR NE43 specification)				
Special Procedures	C1 - Degrease Cleani	ng (Oxygen or Chlorine Service) (15)	C2 –	For Vacuum Application				
Special Features	ZZ – User's Specifica	tion.						
Gasket Connection	U1 - With Two Flush C	ection of 1/4" NPT (If supplied with housing Connections of 1/4" NPT at 180° Connections of 1/4" NPT at 90°)	U3 - With Two Connections of 1/2" NPT - 14 NPT at 180° (With Lid) U4 - Without gastek connection				
Insulator Kit	K0 – Without Kit	K1 – With Kit						
Diaphragm Thickness (16)	N0 - Default (25)	N1 - 0.1mm (11)						



Notes - LD300L:

- Meets NACE MR 01 75/ISO 15156 recommendations.
 Silicone oil not recommended for Oxygen (O2) or Chlorine Service.
 Not applicable for vacuum service.
 Drain/Vent is not applicable.
 O-ring material must be of Viton or Kalrez.
 Maximum pressure 24 bar.

- (6) Maximum pressure 24 bar.
 (7) For remote seal is only available flange in 316 stainless steel– CF8M (ASTM A351) (thread M12).
 (8) Fluorolube fills fluid not available with Monel diaphragm.
 (9) Options not certified for use in hazardous locations.
 (10) Attention, check corrosion rate for the process, tantalum plate 0.1 mm, AISI 316L extension 3 to 6mm.
 (11) Item by inquiry.
 (12) Supplied without Gasket.
 (13) Without certification for Explosion proof certification or Intrinsically safe.
 (14) Limited values to 4 1/2 digits; limited unit to 5 characters.
 (15) Degresser's cleaning is not available for carbon steel flanges.
 (16) The insulator kit is applicable with Raised Face (HO) and Smooth Face (H1) with Gasket material. T(Teflon) and only for the following models: ANSI until #600, DIN until P40 and JIS until 40K; Hinterhal, T (relich) and only for the following models. - ANST untui #600, blirk untuil JIS until 40K;
 For models with extension the Gasket T (Teflon) it has special share.
 (17) Gasket for housing, available only in Stainless 316.
 (18) Finishing flange faces:
 ANSI B 16.5 / MSS-SP6:
 Raised or Smoth Face with gooved lining: 3.2 to 6.3 μm Ra (125 a 250 μ° AA);
 Small or L area Drague Face and Small or Large Groups with grout finishing net

- Small or Large Tongue Face and Small or Large Groove with smooth finishing not exceeding:
 3.2 µm Rt (125 µ² AA);
 RTJ ANSI B 16.20 / MSS-SP6:
- -Smooth finishing not exceeding: 1.6 µm Rt (63 µ" AA);
- -Smooth finishing not exceeding: 1.6 μm Rt (63 μ[°] AA); DIN EN-1092-1; Grooved finishing "B1" (PN 10 a PN40): 3.2 a 12.5 μm Ra (125 a 500 μ[°] AA); Smooth finishing "B2" (PN 63 a PN100), "C" (Tongue) e "D" (Groove): 0.8 a 3.2 μm Ra (32 a 125 μ[°] AA). Din 2501 (DIN 2526): Smooth finishing "E" (PN 160 a PN250): Rz = 16 (3.2 μm Ra (125 μ[°] AA). Standard Jis B2201 Grooved finishing 3.2 a 6.3 μm Ra (125 a 250 μ[°] AA).

- (19) Temperature application range: -40 to 150°C.(20) Applicable only for:

- Diaphragm Thickness of 0.05mm.
 Diameters/Capillary Length:
 2" ANSI B 16.5, DN 50 DIN, JIS 50 A, for seals up to 3 meters of capillary and level models
- (by inquiry). 3" ANSI B 16.5, DN 80 DIN, JIS 80 A, for seals up to 5 meters of capillary and level models. 4" ANSI B 16.5, DN 100 DIN, JIS 100 A, for seals up to 8 meters of capillary and level models.
- 4" ANSI B 16.5, DN 100 DIN, JIS 100 A, for seals up to 8 meters of capillary and level models.
 Faces: RF and FF.
 Temperature Limits:

 +10 to 100°C;
 +101 to 150°C (by inquiry).
 Not applicable for diaphragm thickness: N1 0.10mm.
 Not applicable for saline atmosphere.

 (21) Not available for saline atmosphere.
 (23) IPW/TYPEX tested for 200 hours according to NBR 8094 / ASTM B 117 standard.
 (24) Certificate for use in explosive atmosphere (CEPEL).
 (25) Diaphragms of Titanium and Monel available only in 0.1 mm, and diaphragms of Tantalum only in 0.075 mm.
 (26) Inert Fluid: Safe Oxygen service.
 (27) IPX8 tested in 10 meters of water column for 24 hours.

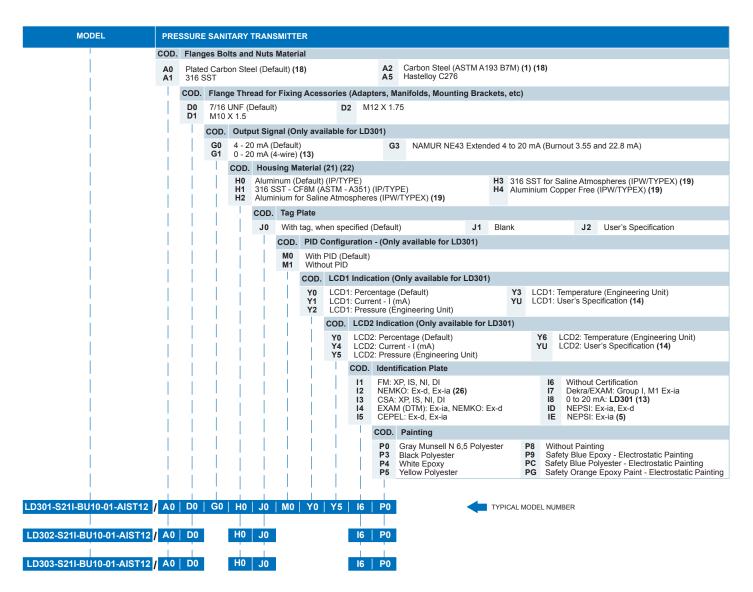
Products	CEPEL	NEMKO / EXAM	FM	CSA	NEPSI
LD300	IP66/68/W	IP66/68/W	Type 4X/6P	Type 4X	IP67

- (29) This adapter has certified for use in Explosion Proof (NEPSI, NEMKO, EXAM).
 (30) This adapter has certified for use in Explosion Proof (FM).
 (31) This adapter has certified for use in Explosion Proof (CSA).
 (32) Only available for LD301.
 (33) Not available for integral flange.

MODEL LD301	PRE		SANITARY	TRANS	ШТТ	TER															
LD301 LD302 LD303	Fou		n™ fieldbu: PA	s																	
LDS05	COD.		Range Min.	Limits Máx.	Mi	in. Spa	in l	Jnit.			Range Min.	Limits Máx.	Min	. Span	Unit.						
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		1 2 3 4 5	Diaphragr 316L SST 316L SST Hastelloy C Hastelloy C Monel 400 Tantalum	Silico Inert 276 Silico 276 Inert Silico	one Flu one Flu one	Oil (2) Jorolub	e Oil ((2) e Oil ((2)	3) (19)		9 A D E	Tantalui 316L SS Monel 4 316L SS Hastello Tantalui	ST 400 ST by C276	Fombl Fombl Inert k Inert k	im Oil im Oil (rytox O	il (19) il (1) (19)		M P Q R	Monel 400 Monel 400 (Monel 400 (316L SST Hastelloy C Tantalum	Gold Plated		(1) (19
			C Plate H Hast	nge(s), Ad ed CS (Dra elloy C276 SST – CF	ain/\ 6 (C	Vent in CW – 12	Stain 2MW,	less Ste ASTM -	el) (18)	al (Low	Side)	N 3		– ČF8M					oy C276) (1) ynar) insert (3) (4) (5)	
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LD300 Series





Optional Itens

Burn-out	BD – Down Scale (Accordance to NAMUR NE43 specification) BU – Up Scale (Accordance to NAMUR NE43 specification)
Special Procedures	C1 – Degrease Cleaning (Oxygen or Chlorine Service) (15) C2 – For Vacuum Application C4 – Polishing of the wet parts according to 3A Certification (11) (12)
Special Features	ZZ – User's Specification
Diaphragm Thickness	N0 – Default N1 – 0.1mm (12)

Note - LD300S:

- (1) Meets NACE MR-01-75/ISO 15156 recommendations
- (2) Silicone oil not recommended for Oxygen (O2) or Chlorine Service. (3) Not applicable for vacuum service.
- (4) Drain not applicable.
- (5) O-Ring material must be of Viton or Kalrez.
- (6) Maximum pressure 24 bar.
- (7) For remote seal is only available flange in 316 Stainless Steel CF8M (ASTM A351) (thread M12). (8) HP - High Pressure.
- (9) Options not certified for use in hazardous locations.
- (10) Not available for Tri-clamp.
 (11) Compliant with 3A-7403 standard for food and other applications where sanitary connections
 - are required:
 - Neobee M2O Fill Fluid
- Finishing wet Face: 0,8 μm Ra (32 μ" AA)
 Wet O-Ring: Viton, Buna-N and Teflon

- (12) Item by inquiry.(13) Without certification for explosion proof or intrinsically safe. (14) Limited values to 4 1/2 digits; limited unit to 5 characters.

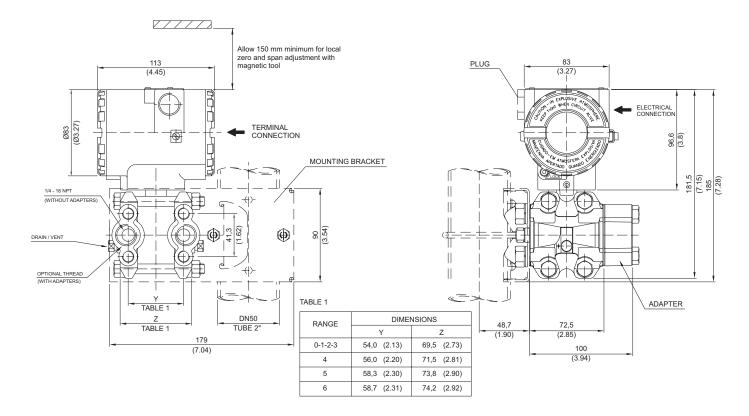
- (15) Degrease cleaning is not available for Carbon Steel Flanges.
 (16) Temperature application range: -40 to 140 °C and Tables 5 and 6 from the following page.
- (17) Inert Fluid: Safe Oxygen service.(18) Not applicable for saline atmosphere.
- (19) IPW/TYPEX tested for 200 hours according to NBR 8094 / ASTM B 117 standard.
 (20) Certificate for use in Explosion Proof (CEPEL).
 (21) IPX8 tested in 10 meters of water column for 24 hours.

- (22) Ingress Protection:

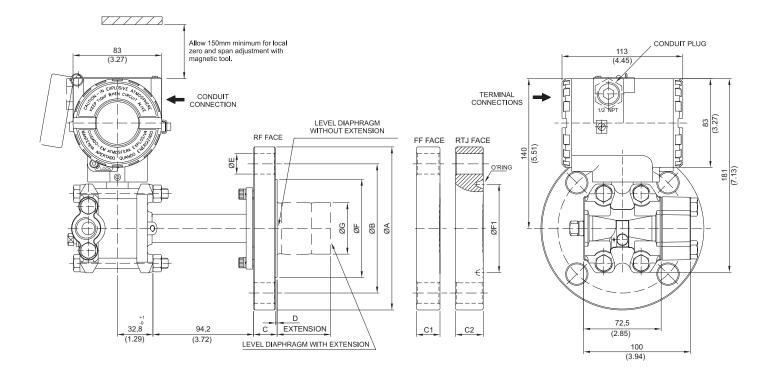
Products	CEPEL	NEMKO / EXAM	FM	CSA	NEPSI
LD300	IP66/68/W	IP66/68/W	Type 4X/6P	Type 4X	IP67

(23) This adapter has certified for use in Explosion Proof (NEPSI, NEMKO, EXAM).
(24) This adapter has certified for use in Explosion Proof (FM).
(25) This adapter has certified for use in Explosion Proof (CSA).
(26) Only available for LD301.







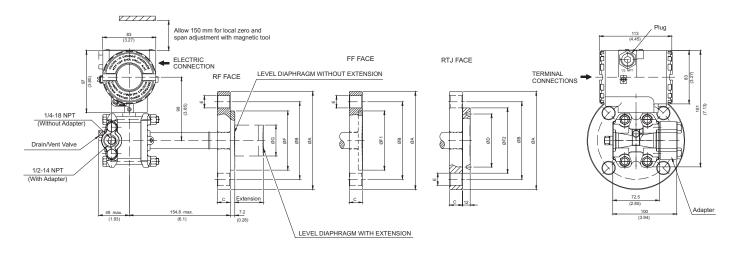


Flanged Pressure Transmitter with Integral Flange

Notes: - Extension lenght (mm): 0, 50, 100, 150 or 200 - Dimensions are mm (in)

									ANSI-B 16.5	5 DIM	IENSIO	NS								
DN	CLASS	ļ	4	E	3	С (RF)	C1 (FF)	C2 (RTJ)	D (RF)	I	E	F (R	F)	F1 (RTJ)	RTJ O`RING		G	HOLES
	150	127	(5)	98.6	(3.88)	20	(0.78)	19 (0.75)	24.4 (0.96)	1.6	(0.06)	16	(0.63)	73.2	(2.88)	65.1 (2.56)	R19	40	(1.57)	4
1.1/2"	300	155.4	(6.12)	114.3	(4.5)	21	(0.83)	21 (0.83)	27.4 (1.07)	1.6	(0.06)	22	(0.87)	73.2	(2.88)	68.3 (2.68)	R20	40	(1.57)	4
	600	155.4	(6.12)	114.3	(4.5)	29.3	(1.15)	29.3 (1.15)	29.3 (1.15)	6.4	(0.25)	22	(0.87)	73.2	(2.88)	68.3 (2.68)	R20	40	(1.57)	4
	150	152.4	(6)	120.7	(4.75)	22	(0.87)	20 (0.78)	25.9 (1.02)	1.6	(0.06)	19	(0.75)	91.9	(3.62)	82.6 (3.25)	R22	48	(1.89)	4
2"	300	165.1	(6.5)	127	(5)	22.8	(0.9)	22.8 (0.89)	30.8 (1.21)	1.6	(0.06)	19	(0.75)	91.9	(3.62)	82.6 (3.25)	R23	48	(1.89)	8
	600	165.1	(6.5)	127	(5)	32.3	(1.27)	32.3 (1.27)	32.3 (1.27)	6.4	(0.25)	19	(0.75)	91.9	(3.62)	82.6 (3.25)	R23	48	(1.89)	8
	150	190.5	(7.5)	152.4	(6)	24.4	(0.96)	24.4 (0.96)	30.7 (1.21)	1.6	(0.06)	19	(0.75)	127	(5)	114.3 (4.50)	R29	73	(2.87)	4
3"	300	209.5	(8.25)	168.1	(6.62)	29	(1.14)	29 (1.14)	36.9 (1.45)	1.6	(0.06)	22	(0.87)	127	(5)	123.8 (4.87)	R31	73	(2.87)	8
	600	209.5	(8.25)	168.1	(6.62)	38.7	(1.52)	38.7 (1.52)	40.2 (1.58)	6.4	(0.25)	22	(0.87)	127	(5)	123.8 (4.87)	R31	73	(2.87)	8
	150	228.6	(9)	190.5	(7.5)	24.4	(0.96)	24.4 (0.96)	30.7 (1.21)	1.6	(0.06)	19	(0.75)	158	(6.22)	149.2 (5.87)	R36	96	(3.78)	8
4"	300	254	(10)	200	(7.87)	32.2	(1.27)	32.2 (1.27)	40.2 (1.58)	1.6	(0.06)	22	(0.87)	158	(6.22)	149.2 (5.87)	R37	96	(3.78)	8
	600	273	(10.75)	215.9	(8.5)	45	(1.77)	45 (1.77)	46.5 (1.83)	6.4	(0.25)	25	(1)	158	(6.22)	149.2 (5.87)	R37	96	(3.78)	8
	-								EN 1092-1	DIME	NSION	S								
DN	PN	A		В		С (RF)	C1 (FF)		[)	E	Ξ	F (R	F)			(G	HOLES
DN40	10/40	150	(5.9)	110	(4.33)	20	(0.78)	20 (0.78)		3	(0.12)	18	(0.71)	88	3.46)			40	(1.57)	4
D D L L D D											(0.12)	10	(0.1.1)		,			40	, ,	
DN50	10/40	165	(6.5)	125	(4.92)	20	(0.78)	22 (0.86)		3	(0.12)	18	(0.71)	102	4.01)			40	(1.89)	4
DN50 DN80	10/40 10/40	165 200	(6.5) (7.87)	125 160	(4.92) (6.3)	20 24	(0.78) (0.95)	22 (0.86) 24 (0.94)		3	· · /		. ,		. ,				(1.89)	4 8
			· · /		· · ·		· · /	(-	(0.12)	18	(0.71)	138	4.01)			48	· · /	-
DN80	10/40	200	(7.87)	160 180	(6.3)	24	(0.95)	(3	(0.12) (0.12)	18 18	(0.71) (0.71)	138	(4.01) (5.43) (6.22)			48 73	(2.87)	8
DN80	10/40 10/16	200 220	(7.87) (8.67)	160 180	(6.3) (7.08)	24 20	(0.95)	(JIS B 2202	3 3 3	(0.12) (0.12) (0.12) (0.12)	18 18 18 22	(0.71) (0.71) (0.71)	138 158	(4.01) (5.43) (6.22)			48 73 96	(2.87)	8
DN80	10/40 10/16	200 220 235	(7.87) (8.67) (9.25)	160 180	(6.3) (7.08) (7.5)	24 20 24	(0.95)	(JIS B 2202	3 3 3	(0.12) (0.12) (0.12) (0.12) (0.12) NSION	18 18 18 22 S	(0.71) (0.71) (0.71)	138 158	(4.01) (5.43) (6.22) (6.38)			48 73 96 96	(2.87)	8
DN80 DN100	10/40 10/16 25/40	200 220 235	(7.87) (8.67) (9.25)	160 180 190	(6.3) (7.08) (7.5)	24 20 24	(0.95) (0.78) (0.95)	(JIS B 2202	3 3 3 DIME	(0.12) (0.12) (0.12) (0.12) (0.12) NSION	18 18 18 22 S	(0.71) (0.71) (0.71) (0.87)	138 158 162 F (R	(4.01) (5.43) (6.22) (6.38)			48 73 96 96	(2.87) (3.78) (3.78)	8 8 8
DN80 DN100 DN 40A	10/40 10/16 25/40 CLASS	200 220 235	(7.87) (8.67) (9.25)	160 180 190 B	(6.3) (7.08) (7.5)	24 20 24	(0.95) (0.78) (0.95)	(JIS B 2202	3 3 3 DIME	(0.12) (0.12) (0.12) (0.12) (0.12) SNSION	18 18 18 22 S	(0.71) (0.71) (0.71) (0.87)	138 158 162 F (R 81	(4.01) (5.43) (6.22) (6.38) F)			48 73 96 96	(2.87) (3.78) (3.78) G	8 8 8 HOLES
DN80 DN100 DN	10/40 10/16 25/40 CLASS 20K	200 220 235 A 140	(7.87) (8.67) (9.25) (5.5)	160 180 190 B 105	(6.3) (7.08) (7.5) (4.13)	24 20 24 24	(0.95) (0.78) (0.95) C (1.02)	(JIS B 2202	3 3 DIME 2	(0.12) (0.12) (0.12) (0.12) (0.12) SNSION (0.08)	18 18 18 22 S 19	(0.71) (0.71) (0.71) (0.71) (0.87) = (0.75)	138 158 162 F (R 81 96	(4.01) (5.43) (6.22) (6.38) (6.38) (3.2)			48 73 96 96 96 40	(2.87) (3.78) (3.78) G (1.57)	8 8 8 HOLES 4
DN80 DN100 DN 40A 50A	10/40 10/16 25/40 CLASS 20K 10K	200 220 235 A 140 155	(7.87) (8.67) (9.25) (5.5) (6.1)	160 180 190 B 105 120 130	(6.3) (7.08) (7.5) (4.13) (4.72)	24 20 24 26 26 26	(0.95) (0.78) (0.95) C (1.02) (1.02) (1.02) (1.02)	(JIS B 2202	3 3 DIME 2 2	(0.12) (0.12) (0.12) (0.12) (0.12) ENSION (0.08) (0.08)	18 18 18 22 S 19 19	(0.71) (0.71) (0.71) (0.87) = (0.75) (0.75)	138 158 162 F (R 81 96 105	(4.01) (5.43) (6.22) (6.38) (3.2) (3.78)			48 73 96 96 96 40 48	(2.87) (3.78) (3.78) G (1.57) (1.89)	8 8 8 HOLES 4 4
DN80 DN100 DN 40A	10/40 10/16 25/40 CLASS 20K 10K 40K	200 220 235 A 140 155 165	(7.87) (8.67) (9.25) (5.5) (6.1) (6.5)	160 180 190 B 105 120 130 150	(6.3) (7.08) (7.5) (4.13) (4.72) (5.12)	24 20 24 26 26 26 26	(0.95) (0.78) (0.95) (0.95) C (1.02) (1.02) (1.02)	(JIS B 2202	3 3 DIME 2 2 2 2	(0.12) (0.12) (0.12) (0.12) (0.12) ENSION (0.08) (0.08) (0.08)	18 18 18 22 S 19 19 19 19	(0.71) (0.71) (0.71) (0.87) = (0.75) (0.75) (0.75)	138 158 162 F (R 81 96 105 126	(4.01) (5.43) (6.22) (6.38) (6.38) (3.2) (3.2) (3.78) (4.13)			48 73 96 96 40 48 48	(2.87) (3.78) (3.78) (3.78) (1.57) (1.89) (1.89)	8 8 8 HOLES 4 4 8





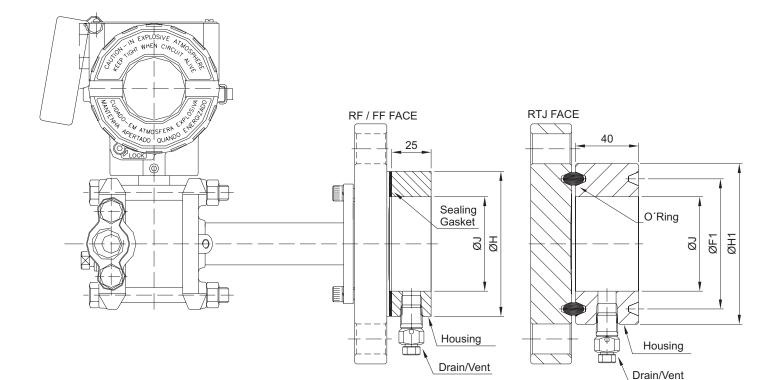
LD300L - Flanged Pressure Transmitter with Slip-on Flange

	ANSI-B 16.5 DIMENSIONS																			
DN	CLASS		4	E	3		С	(D		E	F (F	RF)	F1 (FF)	F2 (R	TJ)	(3	# HOLES
1"	150	108	(4.25)	79.4	(3.16)	14.3	(0.56)		-	16	(0.63)	50.8	(2)	50.8	(2)	-				4
'	300/600	124	(4.88)	88.9	(3.5)	17.5	(0.69)		-	19	(0.75)	50.8	(2)	50.8	(2)	-				4
1 1/2"	150	127	(5)	98.4	(3.87)	17.5	(0.69)		-	16	(0.63)	73	(2.87)	73	(2.87)	-		40	(1.57)	4
1 1/2	300/600	156	(6.14)	114.3	(4.5)	22.2	(0.87)		-	22	(0.87)	73	(2.87)	73	(2.87)	-		40	(1.57)	4
	150	152.4	(6)	120.7	(4.75)	17.5	(0.69)	82.6	(3.25)	19	(0.75)	92	(3.62)	92	(3.62)	101.6	(4.00)	48	(1.89)	4
2"	300	165.1	(6.5)	127	(5)	20.7	(0.8)	82.6	(3.25)	19	(0.75)	92	(3.62)	92	(3.62)	107.9	(4.25)	48	(1.89)	8
	600	165.1	(6.5)	127	(5)	25.4	(1)	82.6	(3.25)	19	(0.75)	92	(3.62)	92	(3.62)	107.9	(4.25)	48	(1.89)	8
	150	190.5	(7.5)	152.4	(6)	22.3	(0.87)	114.3	(4.50)	19	(0.75)	127	(5)	127	(5)	133.4	(5.25)	73	(2.87)	4
3"	300	209.5	(8.25)	168.1	(6.62)	27	(1.06)	123.8	(4.87)	22	(0.87)	127	(5)	127	(5)	146.1	(5.75)	73	(2.87)	8
	600	209.5	(8.25)	168.1	(6.62)	31.8	(1.25)	123.8	(4.87)	22	(0.87)	127	(5)	127	(5)	146.1	(5.75)	73	(2.87)	8
	150	228.6	(9)	190.5	(7.5)	22.3	(0.87)	149.2	(5.87)	19	(0.75)	158	(6.22)	158	(6.22)	171.5	(6.75)	89	(3.5)	8
4"	300	254	(10)	200	(7.87)	30.2	(1.18)	149.2	(5.87)	22	(0.87)	158	(6.22)	158	(6.22)	174.6	(6.87)	89	(3.5)	8
	600	273	(10.75)	215.9	(8.5)	38.1	(1.5)	149.2	(5.87)	25	(1)	158	(6.22)	158	(6.22)	174.6	(6.87)	89	(3.5)	8

				EN	1092-1	/ DI	DIMENSIONS - RF/ FF							
DN	PN	А		В			С		E	F		G		# HOLES
25	10/40	115	(4.53)	85	(3.35)	18	(0.71)	14	(0.55)	68	(2.68)		-	4
40	10/40	150	(5.91)	110	(4.33)	18	(0.71)	18	(0.71)	88	(3.46)	73	(2.87)	4
50	10/40	165	(6.50)	125	(4.92)	20	(0.78)	18	(0.71)	102	(4.01)	48	(1.89)	4
80	10/40	200	(7.87)	160	(6.30)	24	(0.95)	18	(0.71)	138	(5.43)	73	(2.87)	8
100	10/16	220	(8.67)	180	(7.08)	20	(0.78)	18	(0.71)	158	(6.22)	89	(3.5)	8
100	25/40	235	(9.25)	190	(7.50)	24	(0.95)	22	(0.87)	162	(6.38)	89	(3.5)	8

NOTES:

-EXTENSION LENGTH IN mm(in): 0, 50 (1.96), 100 (3.93), 150(5.9) or 200 (7.87) -FOR 1" AND DN25 THE EXTENSION LENGTH IS 0 mm -DIMENSIONS IN mm(in)

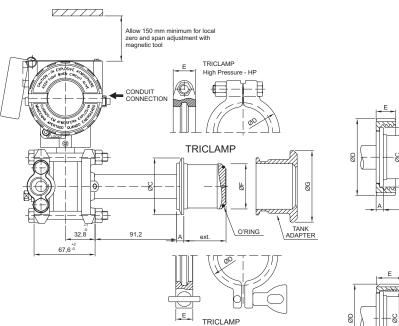


LD300L - Flanged Pressure Transmitter with Housing

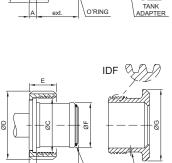
	ANSI-B 16.5	DIMENSION	S									
DN	CLASS	Н	J									
1.1/2"		73,2 (2,88)	48 (1,89)									
2"	ALL	91,9 (3,62)	60 (2,36)									
3"	1	127 (5,00)	89 (3,50)									
4"		158 (6,22)	115 (4,53)									
DIN EN10	92-1/ DIN2501/2	2526 FORM D	DIMENSIONS									
DN PN H J												
40		88 (3,46)	48 (1,89)									
50	ALL	102 (4,02)	60 (2,36)									
80		138 (5,43)	89 (3,50)									
100		158 (6,22)	115 (4,53)									
	JIS B 2202 D	IMENSIONS										
DN	CLASS	Н	J									
40A	20K	81 (3,19)	48 (1,89)									
50A	10K	96 (3,78)	60 (1,36)									
50A	40K	105 (4,13)	60 (1,36)									
80A	10K	126 (4,96)	89 (3,50)									
OUA	20K	132 (5,20)	89 (3,50)									
100A	100A 10K 151 (5,94) 115 (4,53)											

DIMENSIONS IN mm (")

	ANSI-B 16.5 DIMENSIONS - RTJ FACE												
DN	CLASS	F1	0`RING	H1	J								
	150	65,1 (2,56)	R19	82,5 (3,25)	48 (1,89)								
	300	68,3 (2,69)	R20	90,5 (3,56)	48 (1,89)								
1.1/2"	600	68,3 (2,69)	R20	90,5 (3,56)	48 (1,89)								
	1500	68,3 (2,69)	R20	92 (3,62)	48 (1,89)								
	2500	82,6 (3,25)	R23	114 (4,50)	48 (1,89)								
	150	82,6 (3,25)	R22	102 (4,00)	60 (2,36)								
	300	82,6 (3,25)	R23	108 (4,25)	60 (2,36)								
2"	600	82,6 (3,25)	R23	108 (4,25)	60 (2,36)								
	1500	95,3 (3,75)	R24	124 (4,88)	60 (2,36)								
	2500	101,6 (4,00)	R26	133 (5,25)	60 (2,36)								
	150	114,3 (4,50)	R29	133 (5,25)	89 (3,50)								
3"	300	123,8 (4,87)	R31	146 (5,75)	89 (3,50)								
	600	123,8 (4,87)	R31	146 (5,75)	89 (3,50)								
	150	149,2 (5,87)	R36	171 (6,75)	115 (4,53)								
4"	300	149,2 (5,87)	R37	175 (6,88)	115 (4,53)								
	600	149,2 (5,87)	R37	175 (6,88)	115 (4,53)								



LD300S - Sanitary Transmitter with Extension



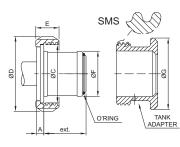
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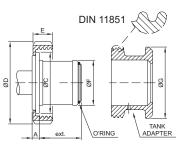
RTJ

ð

TANK ADAPTER

U

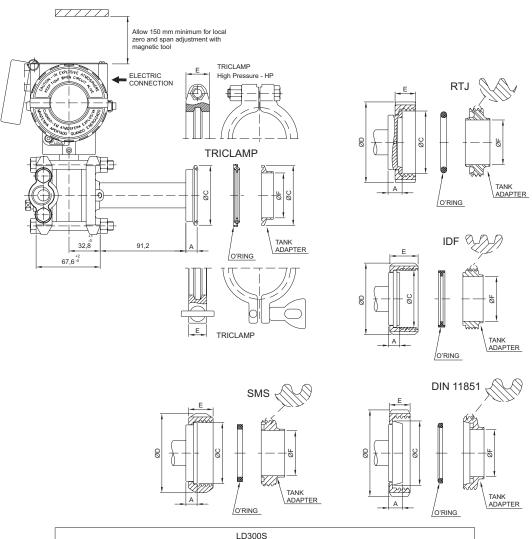




O'RING

	LD300S										
CONNECTION WITH			Dime	nsions in m	ım (")						
EXTENSION	А	ØC	ØD	E	ØF	ØG	EXT.				
Tri-Clamp DN50	8 (0.315)	63.5 (2.5)	76.5 (3.01)	18 (0.71)	50.5 (1.99)	80 (3.15)	48 (1.89)				
Tri-Clamp DN50 HP	8 (0.315)	63.5 (2.5)	81 (3.19)	25 (0.98)	50.5 (1.99)	80 (3.15)	48 (1.89)				
Tri-Clamp - 2"	8 (0.315)	63.5 (2.5)	76.5 (3.01)	18 (0.71)	50.5 (1.99)	80 (3.15)	48 (1.89)				
Tri-Clamp - 2" HP	8 (0.315)	63.5 (2.5)	81 (3.19)	25 (0.98)	50.5 (1.99)	80 (3.15)	48 (1.89)				
Tri-Clamp - 3"	8 (0.315)	91 (3.58)	110 (4.33)	18 (0.71)	72.5 (2.85)	100 (3.94)	50 (1.96)				
Tri-Clamp - 3" HP	8 (0.315)	91 (3.58)	115 (4.53)	25 (0.98)	72.5 (2.85)	100 (3.94)	50 (1.96)				
Threaded DN25 - DIN 11851	6 (0.24)	47.5 (1.87)	63 (2.48)	21 (0.83)	43.2 (1.7)	80 (3.15)	26.3 (1.03)				
Threaded DN40 - DIN 11851	8 (0.315)	56 (2.2)	78 (3.07)	21 (0.83)	50.5 (1.99)	80 (3.15)	48 (1.89)				
Threaded DN50 - DIN 11851	8 (0.315)	68.5 (2.7)	92 (3.62)	22 (0.86)	50.5 (1.99)	80 (3.15)	48 (1.89)				
Threaded DN80 - DIN 11851	8 (0.315)	100 (3.94)	127 (5)	29 (1.14)	72.5 (2.85)	100 (3.94)	50 (1.96)				
Threaded SMS - 2"	8 (0.315)	65 (2.56)	84 (3.3)	26 (1.02)	50.5 (1.99)	80 (3.15)	48 (1.89)				
Threaded SMS - 3"	8 (0.315)	93 (3.66)	113 (4.45)	32 (1.26)	72.5 (2.85)	100 (3.94)	50 (1.96)				
Threaded RJT - 2"	8 (0.315)	66.7 (2.63)	86 (3.38)	22 (0.86)	50.5 (1.99)	80 (3.15)	48 (1.89)				
Threaded RJT - 3"	8 (0.315)	92 (3.62)	112 (4.41)	22.2 (0.87)	72.5 (2.85)	100 (3.94)	50 (1.96)				
Threaded IDF - 2"	8 (0.315)	60.5 (2.38)	76.2 (3)	30 (1.18)	50.5 (1.99)	80 (3.15)	48 (1.89)				
Threaded IDF - 3"	8 (0.315)	87.5 (3.44)	101.6 (4)	30 (1.18)	72.5 (2.85)	100 (3.94)	50 (1.96)				

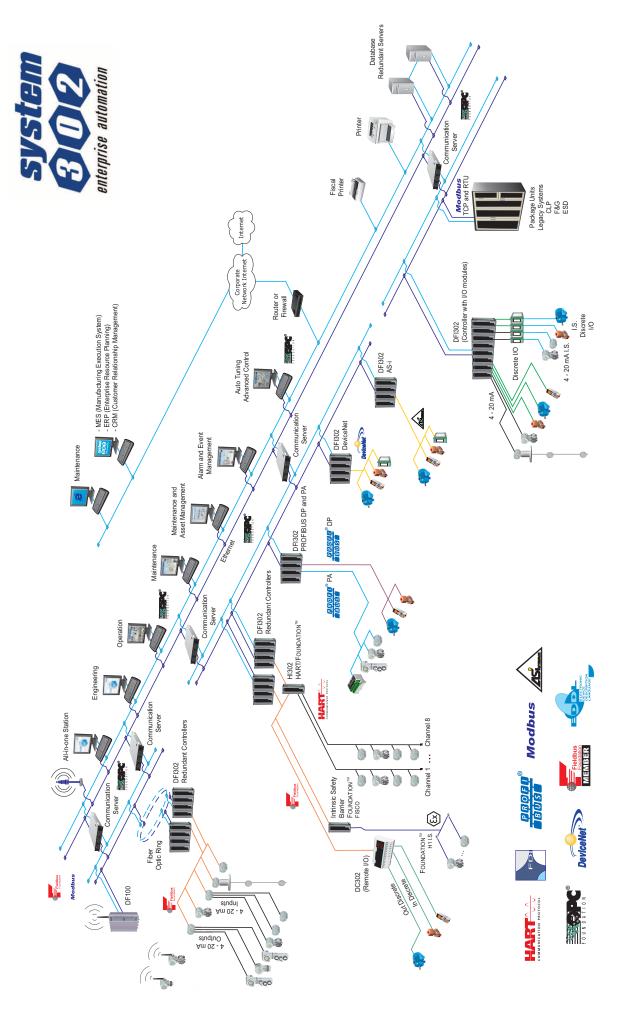




LD300S - Sanitary Transmitter without Extension

		LD300S					
CONNECTION WITHOUT EXTENSION	Dimensions in mm (")						
	Α	ØC	ØD	E	ØF	ØG	EXT.
Tri-Clamp DN50	8 (0.315)	63.5 (2.5)	76.5 (3.01)	18 (0.71)	47.5 (1.87)		
Tri-Clamp - 1 1/2"	12 (0.47)	50 (1.96)	61 (2.4)	18 (0.71)	35 (1.38)		
Tri-Clamp - 1 1/2" HP	12 (0.47)	50 (1.96)	66 (2.59)	25 (0.98)	35 (1.38)		
Tri-Clamp - 2"	12 (0.47)	63.5 (2.5)	76.5 (3.01)	18 (0.71)	47.6 (1.87)		
Tri-Clamp - 2" HP	12 (0.47)	63.5 (2.5)	81 (3.19)	25 (0.98)	47.6 (1.87)		
Tri-Clamp - 3"	12 (0.47)	91 (3.58)	110 (4.33)	18 (0.71)	72 (2.83)		
Tri-Clamp - 3" HP	12 (0.47)	91 (3.58)	115 (4.53)	25 (0.98)	72 (2.83)		
Threaded DN40 - DIN 11851	13 (0.51)	56 (2.2)	78 (3.07)	21 (0.83)	38 (1.5)		
Threaded DN50 - DIN 11851	15 (0.59)	68.5 (2.7)	92 (3.62)	22 (0.86)	50 (1.96)		
Threaded DN80 - DIN 11851	16 (0.63)	100 (3.94)	127 (5)	29 (1.14)	81 (3.19)		
Threaded SMS - 1 1/2"	12 (0.47)	55 (2.16)	74 (2.91)	25 (0.98)	35 (1.38)		
Threaded SMS - 2"	12 (0.47)	65 (2.56)	84 (3.3)	26 (1.02)	48.6 (1.91)		
Threaded SMS - 3"	12 (0.47)	93 (3.66)	113 (4.45)	32 (1.26)	73 (2.87)		
Threaded RJT - 2"	15 (0.59)	66.7 (2.63)	86 (3.38)	22 (0.86)	47.6 (1.87)		
Threaded RJT - 3"	15 (0.59)	92 (3.62)	112 (4.41)	22.2 (0.87)	73 (2.87)		
Threaded IDF - 2"	12 (0.47)	60.5 (2.38)	76 (2.99)	30 (1.18)	47.6 (1.87)		
Threaded IDF - 3"	12 (0.47)	87.5 (3.44)	101.6 (4)	30 (1.18)	73 (2.87)		

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