

MODEL DIFFERENTIAL, FLOW, GAGE, ABSOLUTE AND HIGH STATIC PRESSURE TRANSMITTERS

LD301 HART® & 4-20 mA
LD302 FOUNDATION™ fieldbus
LD303 PROFIBUS PA

| COD. | Type | Range Limits | | Min. Span | Unit | Range Limits | | Min. Span | Unit |
|------|-------------------------------------|--------------|------|-----------|------|--------------|------|-----------|--------------------|
| | | Min | Max | | | Min | Max | | |
| D0 | Differential and Flow | -1 | 1 | 0.05 | kPa | -4 | 4 | 0.2 | inH ₂ O |
| D1 | Differential and Flow | -5 | 5 | 0.13 | kPa | -20 | 20 | 0.5 | inH ₂ O |
| D2 | Differential and Flow | -50 | 50 | 0.42 | kPa | -200 | 200 | 1.67 | inH ₂ O |
| D3 | Differential and Flow | -250 | 250 | 2.08 | kPa | -36 | 36 | 0.3 | psi |
| D4 | Differential and Flow | -2500 | 2500 | 20.83 | kPa | -360 | 360 | 3 | psi |
| M0 | Gage | -1 | 1 | 0.05 | kPa | -4 | 4 | 0.2 | inH ₂ O |
| M1 | Gage | -5 | 5 | 0.13 | kPa | -20 | 20 | 0.5 | inH ₂ O |
| M2 | Gage | -50 | 50 | 0.42 | kPa | -200 | 200 | 1.67 | inH ₂ O |
| M3 | Gage | -100 | 250 | 2.08 | kPa | -14.50 | 36 | 0.3 | psi |
| M4 | Gage | -100 | 2500 | 20.83 | kPa | -14.50 | 360 | 3 | psi |
| M5 | Gage | -0.1 | 25 | 0.21 | MPa | -14.50 | 3600 | 30 | psi |
| M6 | Gage | -0.1 | 40 | 0.33 | MPa | -14.50 | 5800 | 48.3 | psi |
| A1 | Absolute | 0 | 5 | 2.00 | kPa | 0 | 37 | 14.8 | mmHg |
| A2 | Absolute | 0 | 50 | 2.50 | kPa | 0 | 7.2 | 0.36 | psia |
| A3 | Absolute | 0 | 250 | 5.00 | kPa | 0 | 36 | 0.73 | psia |
| A4 | Absolute | 0 | 2500 | 20.83 | kPa | 0 | 360 | 3 | psia |
| A5 | Absolute | 0 | 25 | 0.21 | MPa | 0 | 3600 | 30 | psia |
| A6 | Absolute | 0 | 40 | 0.33 | MPa | 0 | 5800 | 48.3 | psia |
| H2 | Differential - High Static Pressure | -50 | 50 | 0.42 | kPa | -200 | 200 | 1.67 | inH ₂ O |
| H3 | Differential - High Static Pressure | -250 | 250 | 2.08 | kPa | -36 | 36 | 0.3 | psi |
| H4 | Differential - High Static Pressure | -2500 | 2500 | 20.83 | kPa | -360 | 360 | 3 | psi |
| H5 | Differential - High Static Pressure | -25 | 25 | 0.21 | MPa | -3600 | 3600 | 30 | psi |

Note: The range can be extended up to 0.75 LRL and 1.2 URL with small degradation of accuracy.

COD. Diaphragm Material and Fill Fluid

| | | | | | | | | |
|---|----------------|---------------------------------|---|-----------------------|-----------------------------|---|-----------------------|---------------------------------------|
| 1 | 316L SST | Silicone Oil (9) | 9 | 316L SST | Fomblim Oil | M | Monel 400 Gold Plated | Silicone Oil (1) (3) (9) |
| 2 | 316L SST | Inert Fluorolube Oil (12)(15) | A | Monel 400 | Fomblim Oil (1)(3) | P | Monel 400 Gold Plated | Inert Krytox Oil (1) (3) (15) |
| 3 | Hastelloy C276 | Silicone Oil (1)(9) | D | 316 L SST | Inert Krytox Oil (3)(15) | Q | 316 L SST | Inert Halocarbon 4.2 Oil (2) (3) (15) |
| 4 | Hastelloy C276 | Inert Fluorolube Oil (1)(2)(15) | E | Hastelloy C276 | Inert Krytox Oil (1)(3)(15) | R | Hastelloy C276 | Inert Halocarbon 4.2 Oil (2) (3) (15) |
| 5 | Monel 400 | Silicone Oil (1)(3)(9) | G | Tantalum | Inert Krytox Oil (3)(15) | S | Tantalum | Inert Halocarbon 4.2 Oil (2) (3) (15) |
| 7 | Tantalum | Silicone Oil (3)(9) | I | 316L SST, Gold Plated | Silicone Oil | U | 316 L SST O.P. | Silicone Oil (9) |
| 8 | Tantalum | Inert Fluorolube Oil (2)(3)(15) | K | Monel 400 | Inert Krytox Oil (1)(3)(15) | | | |

Note: O.P. = Over-Lay Pot

COD. Flange(s), Adapter(s) and Drain/Vent Valves Material

| | | | | | |
|---|--|---|---|---|----------------------|
| C | Plated CS (Drain/Vent In Stainless Steel) (16) | M | Monel 400 (1) | Z | User's specification |
| F | Monel 400 Plated Bar (for HF applications) | N | 316 SST - CF8M (ASTM A351) (Drain/Vent In Hastelloy C276) (1) | | |
| H | Hastelloy C276 (CW-12MW, ASTM - A494) (1) | P | 316 SST - CF8M (ASTM A351) Flange with PVDF (Kynar) Insert (5) (7) (11) | | |
| I | 316 SST - CF8M (ASTM A351) | O | 316 SST - CF8M (Drain/Vent and plug in Monel) Nace Standard | | |

COD. Wetted O'Rings Materials

| | | | | | | |
|---|-----------------|---|---------------------------|---|--------|---|
| 0 | Without O'Rings | E | Ethylene - Propylene (12) | T | Teflon | Note: O'Rings are not available on the sides with Remote Seals. |
| B | Buna-N | K | Kalrez (12) | V | Viton | |

COD. Drain/Vent Position

| | | | | |
|---|---|---|--------|---|
| 0 | Without Drain/Vent | D | Bottom | Note: For better drain/vent operation, vent valves are strongly recommended. Drain/vent valve not available on the sides with remote seals. |
| A | Drain/Vent (Opposite to Process Connection) | U | Top | |

COD. Local Indicator

| | | | |
|---|-------------------|---|------------------------|
| 0 | Without Indicator | 1 | With Digital Indicator |
|---|-------------------|---|------------------------|

COD. Process Connection

| | | | |
|---|--|---|--|
| 0 | 1/4 - 18 NPT (Without Adapter) | B | High Side: 1/2 - 14 NPT and Low Side: Remote Seal (With Plug) (10) (12) |
| 1 | 1/2 - 14 NPT (With Adapter) | D | High Side: Remote Seal (With Plug) and Low Side - 1/2 - 14 NPT (10) (12) |
| 2 | CF16 (Without Adapter) | F | High Side: 1/2 - 14 NPT and Low Side: Remote Seal (Low Volume Flange) (10)(12) |
| 3 | Remote Seal (With Plug) (3) (8) | H | High Side: Remote Seal (Low Volume Flange) and Low Side: 1/2 - 14 NPT (10)(12) |
| 5 | 1/2 - 14 NPT Axial with PVDF Insert (5)(7)(14) | Q | 8 mm hole without thread (According to DIN19213) (13) |
| 6 | Low Volume Flange | T | 1/2 - 14 BSP (With Adapter) |
| 7 | Plug for Remote Seal | U | Low Volume Flange for Level Welded |
| 8 | Low Volume Flange - Welded | V | Manifold Valve integrated to the transmitter |
| 9 | Remote Seal (Low Volume Flange) (3)(4)(8) | Z | User's specification |

COD. Electrical Connection

| | | | |
|---|---|---|----------------------|
| 0 | 1/2 - 14 NPT (17)(18)(19)(20) | A | M20 X 1.5 (17)(18) |
| 1 | 3/4 - 14 NPT (with 316 SST adapter for 1/2 - 14 NPT) (17)(20) | B | PG 13.5 DIN (17)(18) |
| 2 | 3/4 - 14 BSP (with 316 SST adapter for 1/2 - 14 NPT) (6) | Z | User's specification |
| 3 | 1/2 - 14 BSP (with 316 SST adapter for 1/2 - 14 NPT) (6) | | |

COD. Set this code as "1" for LD301 and exclude for the others

COD. Mounting Bracket for 2" Pipe or Surface Mounting

| | | | |
|---|---|---|---|
| 0 | Without bracket | 7 | Carbon steel bracket. Accessories: 316 SST (16) |
| 1 | Carbon steel bracket and accessories (16) | 9 | L type, carbon steel bracket. Accessories: 316 SST (16) |
| 2 | 316 SST bracket and accessories | A | Flat, 304 SST bracket and 316 SST accessories |
| 5 | L type, carbon steel bracket and accessories (16) | Z | User's specification |
| 6 | L type, 316 SST bracket and accessories | | |

COD. Continues next page

LD301 - D2 1 I - B U 1 0 - 0 1 2 / *
LD302 - D2 1 I - B U 1 0 - 0 2 / *
LD303 - D2 1 I - B U 1 0 - 0 2 / *

← TYPICAL MODEL NUMBER

Notes:

- (1) Meets NACE MR-01-75/ISO 15156 recommendations.
- (2) Not available for absolute models nor for vacuum applications.
- (3) Not available for range 0 and 1.
- (4) Not recommended for vacuum service.
- (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) Not available for range 0.
- (10) Available for differential pressure transmitters, range 4, 7/16 UNF or M10 x 1.5 thread and for high static pressure transmitters, range 4, 7/16 UNF thread.
- (11) Only available for flange with PVDF (Kynar) insert
- (12) Inert Fluid: Safe Oxygen Service.
- (13) Not applicable for saline atmosphere.
- (14) This adapter has certified for use in Explosion Proof (CEPEL).
- (15) This adapter has certified for use in Explosion Proof (NEPSI, NEMKO, EXAM).

(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.

(19) This adapter has certified for use in Explosion Proof (FM).

(20) This adapter has certified for use in Explosion Proof (CSA).