244LVP *Levelstar* Intelligent Buoyancy Transmitter for Liquid Level, Interface and Density - Communication HART and Foundation Fieldbus -

The intelligent transmitter 244LVP is designed to perform continuous measurements for liquid level, interface or density of liquids in the process of all industrial applications. The measurement is based on the proven Archimedes buoyancy principle and thus extremely robust and durable. Measuring values can be transferred analog and digital. Digital communication facilitates complete operation and configuration via PC or control system. The 244LVP measures with consistent reliability and high precision. For installations in contact with explosive atmospheres up to Zone 0, certificates are available. The 244LVP combines the abundant experience of FOXBORO with most advanced digital technology.

FEATURES

- HART Communication, 4 to 20 mA, or FOUNDATION Fieldbus
- Configuration via FDT-DTM
- Multilingual full text graphic LCD
- IR communication as a standard
- Easy adaptation to the measuring point without calibration at the workshop
- Linear or customized characteristic with 32 points
- Approved for SIL applications (with HART)
- Local display in %, mA or physical units
- Signal noise suppression by Smart Smoothing
- Continuous self-diagnostics
- Linear or customized characteristic
- Process temperature from –50 °C to +150 °C
- Static pressure up to PN 150, class 900
- Micro sintermetal sensor technology

Life Is On | Foxboro™ by Schneider Electric

TECHNICAL DATA

Data refer to the sensor material Type 316L (1.4404)

Explosion protection certificates must be observed!

Input / Output

Measuring ranges . . . . . 50 mm to 15 m, upper and lower range value continuously adjustable

Standard lenghts of
Displacer (204DE) . . . . . 300 .. 3000 mm, 12 .. 118 in; further lenghts on request

	PN 40	PN 40 (> 2.5 kg), PN 150
Weight force lower range value	25 N	40 N
Weight force upper range value	5 N	5 N
Measuring span	2 .. 20 N	3.4 .. 34 N
on request		2 N

Span ratio
Turn-down . . . . . 1:1 .. 1:10 (1:20 on request)

Accuracy [1] . . . . . ± 0.2 % ; increased accuracy with customized adjustment

Transfer function . . . . . linear or customized with up to 32 setpoints

Configuration

- with FDT-DTM per HART protocol
  - via 2-wire connection 4 .. 20 mA
  - via IR communication
- with multi-lingual, full graphic LCD display with %, mA, physical units and 2 from the outside-to-use buttons

Load . . . . . $R_{Bmax} = (U_S - 12\ V) / 23\ mA$

Communication HART

Connection . . . . . Two-wire system

Supply voltage U_S [2] . . . . . > 12 V + Rb*0.024 A
Rb is the total burden resistor for lines, HART measurement resistor and communication.

Current sink . . . . . max. 24 mA

Signal range . . . . . 4 to 20 mA

Operating range . . . . . 3.8 to 20.5 mA (acc. NE 43)

Critical error alarms in the 2-wire Communication . . . . < 3.6 mA and > 21 mA

HART Protocol
- 2-wire . . . . . 1200 Baud, HART compliant
- IR communication . . . . . 19200 Baud

Communication Hardware
- Handterminal . . . . . HT 375/475
- PC Software . . . . . WIN xx and FDT/DTM

Communication FOUNDATION Fieldbus H1

Connection . . . . . twisted and shielded two wire cable acc.to recommendation based on IEC 1158-2

Supply voltage U_S: . . . . . 9 .. 30 V DC [3], $V_{pp} \leq 1\%$

Operating current . . . . . 10.5 mA ± 0.5 mA (base current)

Digital communication . . . . . FF specification ITK Profile 6, Link-Master (LAS), funktion blocks 2AI, PID, IS, OS, AR

- Signal amplitude . . . . . ± 8 mA
- Fault current . . . . . ≤ 13 mA
- Operating values . . . . . according to IEC 1158-2
- Bus connection . . . . . Fieldbus interface based on IEC 1158-2
- Power supply . . . . . Power supply is achieved dependant on the application by means of segment coupler
- File . . . . . the actual file can be downloaded from our homepage

Configuration
- Software . . . . . National Instruments NI-FBUS Configurator
- Hardware . . . . . FBUS interfaces from National Instruments (USB-FBUS and PCMCIA-FBUS)
- Control systems . . . . . FOUNDATION Fieldbus H1 compatible

Failure handling
- Substitute value . . . . . last value or safety value
- Safety value . . . . . adjustable -110 .. +110 % of out
- Reset substitute value . . . . automatically or manual

1) Accuracy acc. ANSI / ISA - S51.1 - 1979
2) Us (max) with explosionproof device < 30 V, otherwise < 42 V
3) With explosionproof device 9 .. 24 V DC

Operating conditions [1]

Process temperature . . . . . –50 °C ... +150 °C
Pressure rating
  acc. to DIN . . . . . PN 16, 40, 63, 100, 150
  acc. to ANSI . . . . . Class 150, 300, 600, 900
Ambient temperature [2] . . . . –40 °C ... +70 °C [3]
Relative humidity . . . . . up to 100 %
Condensation . . . . . permitted
Transportation-
storage temperature. . . . . –40 °C ... +85 °C
Protection . . . . . IP 66 (acc. DIN 40 050)

The device can be operated at a class D2 location in accordance with DIN IEC 654, part 1.

Operation condition effects

Ambient temperature . . . . . –10 °C ... +70 °C
  Zero. . . . . < 0.1 % / 10 K [4]
  Span . . . . . < 0.07 % / 10 K
  Total

$$(0.1\frac{\text{max. sp.}}{\text{adjusted sp.}} \pm 0.07\frac{\text{measured value}}{\text{adjusted sp.}})\% / 10K$$

  (*sp.* = measuring span)

< –10 °C / > +70 °C. . . . . twice the value
Process temperature . . . . . < 0.1 % / 10 K [9]
Operating pressure . . . . . no influence (vacuum resistant)

Transitional behavior

Dynamic behavior
  Damping (90 %-time) . . . . 0 ... 32 s
  Switch-on time . . . . . 7 s
  Step response (63 %-time)
  with damping 0 s . . . . . 250 ms
Update rate . . . . . 10 / s
Long term stability . . . . . < 0.2 % / 6 months at 20°C [9]
Noise suppression
  Common mode voltage . . . < AC 250 V_{eff}
  Common mode rejection . . 120 dB
  Series mode rejection . . . . 50 dB
  Filter . . . . . Smart Smoothing

1) Not with all materials - see Table of Comparison of Materials page 6
2) –50 °C on request
3) Display not readable at T < –20 °C or T > +70 °C
4) For max. measuring span

Materials (Table of Comparison see page 6)

Sensor
Measuring cell . . . . . 316L (1.4404 / 1.4435)
Fill fluid . . . . . silicone oil
Filling volume . . . . . appox. 0.3 cm^3
Displacer 204DE . . . . . 316L (1.4404 / 1.4435), PTFE, PTFE with 25% carbon or Hastelloy C
Suspension . . . . . 316L (1.4404 / 1.4435 / 1.4436)
Connection flange . . . . . 316Ti (1.4571) (other on request)
Amplifier housing . . . . . Aluminium (Alloy No GD-Al Si 12), Polyurethan coated, or Stainless Steel 316L (1.4404)

For Sour Gas applications according to NACE Standard MR-0175-2003:
Diaphragm . . . . . 316L (1.4404 / 1.4435)
Flange 316Ti (1.4571)

Mounting

Mounting method . . . . . flange mounted
acc. DIN . . . . . DN 50, DN 80, DN 100
acc. ANSI . . . . . 2 inch, 3 inch, 4 inch

Weight

Transmitter . . . . . see table page 6
Displacer . . . . . see table page 10

Electrical connection

Cable entry thread . . . . . M20x1.5 or 1/2-14 NPT
Cable gland and screwed sealing plug have to be ordered separately under model code BUSG ...

For equipment in Ex d version, 1 screwed sealing plug made of stainless steel is included in delivery.
Screw terminals . . . . . wire cross-section up to 2.5 mm^2
Test sockets . . . . . Ø 2 mm

Electromagnetic compatibility EMC

Operating conditions . . . . . industrial environment, measuring instruments, living area
Immunity and Emission according to

EN 55011 / IEC - CISPR 11	2011-4	fulfilled
EN / IEC 61000-4-2, 3, 4, 5, 6, 11 .	2011-9	fulfilled
EN / IEC 61000-6-2, 3, 4	2011-9	fulfilled
EN / IEC 61326-1	2006-10	fulfilled
NAMUR recommendation NE 21 . .	2012	fulfilled

SAFETY REQUIREMENTS

CE Label

Electromagnetic compatibility 2004/108/EG
Low-voltage regulation . . . . . not applicable
Explosion protection acc to ATEX . . 94/9/EG

Safety

According to EN 61010-1
(resp. IEC 1010-1) . . . . . safety class III
Internal fuses . . . . . none (or not replaceable by customer)
External fuses . . . . . Limitation of power supplies for fire protection have to be observed due to EN 61010-1, appendix F (rsp. IEC 1010-1)

Electrical classification ATEX [1) 2)]

Explosion-proof:				
AD 931	Housing	II 2 G Ex d IIC T6 Gb	PTB 02 ATEX 1025 X	Zone 1
Intrinsic safe and auxilliary protection:				
AID421	Housing	II 2 G Ex d ia IIC T6 Gb	PTB 04 ATEX 2011 X	Zone 1
Zone 2:				
AID 421	HART electronics	II 3 G Ex ia/ib IIC T4 Gc	Manufacturer's Declaration	Zone 2

International Certificates

FM Certification *

Intrinsically Safe
Nonincendive
Explosion proof
Dust-Ignitionproof / II, III / 1 / EFG / T6

- Further protection types of on request -

* pending
1) With appropriate order only
2) National requirements have to be observed

TABLE OF MATERIALS

Comparison of Material

Code	WNr	DIN	Remarks	equivalent to
X6 CrNiMoTi 17 12 2	1.4571	17 440		~ ASTM Typ 316Ti
X2 CrNiMo 17 13 2	1.4404			ASTM Typ 316L
X2 CrNiMo 18 14 3	1.4435			
X5 CrNiMo 17 13 3	1.4436			
NiMo 16 Cr 15 W	2.4819	17 744	equivalent to Hastelloy C-276 VdTÜV - Wbl. 400	UNS N 12 276
GD - AlSi 12	3.2582.05	17 007	Al - Diecasting	

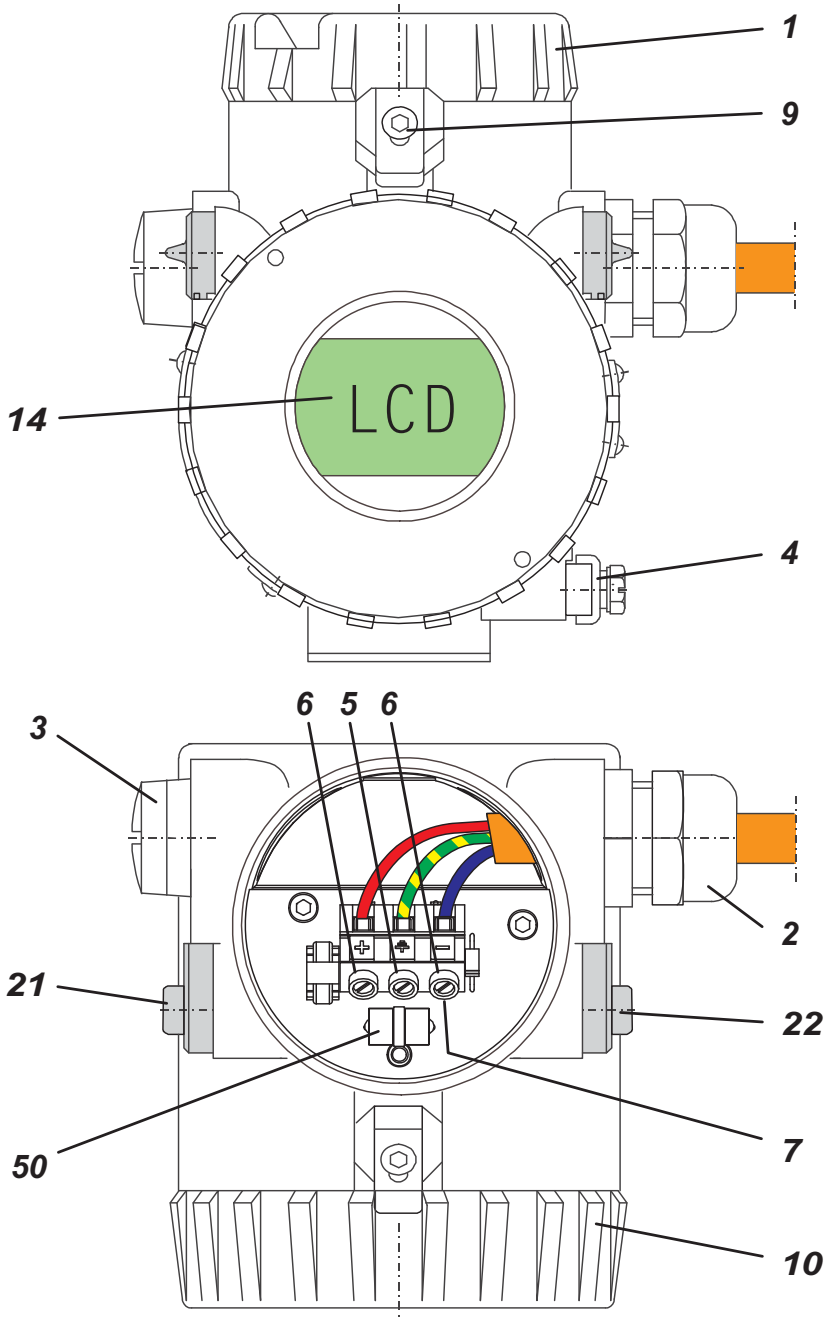
Service Limits 244LVP

Nominal pressure		316 / 316L (1.4404 / 1.4571)		
		Max. operating pressure in bar at temperature in °C		
		–50 ... –10	–10 ... +50	+150
DIN	PN 40 DIN 2635	40	40	34
	PN 63	63	63	53
	PN 100	100	100	86
	PN 160	150	150	134
ANSI	Class 150	19	18	15
	Class 300	49	49	40
	Class 600	99	99	75
	Class 900	148	148	114

Table of Weights

Transmitter, with flange	Weight [kg]									
	DIN PN						ANSI Class			
	16	25	40	63	100	160	150	300	600	900
DN 50 / 2 inch	4.9	4.9	4.9	-	-	-	4.5	5.5	-	-
DN 80 / 3 inch	7.2	7.2	7.2	7.6	9.7	10.3	7.4	9.2	9.2	13.7
DN 100 / 4 inch	-	7.7	7.7	10.7	14.2	15.5	7.6	7.6	18.3	22.6

CONNECTIONS, OPERATIONAL ELEMENTS



1 Cover for terminal compartment
2 Cable gland (as ordered)
3 Plug, interchangable by Pos. ***2***
4 External ground connection
5 Internal ground connection
6 Terminals (+ / -)
7 Test sockets Ø 2 mm integrated in terminals
9 Security lock for Ex d version
10 Cover for amplifier housing (with local display)
14 LCD indicator shows
Measuring variable
Engineering unit and
Messages
21 Local key 1 for local operation
22 Local key 2 for local operation
50 Overvoltage protection

MODEL CODES 244LVP

Intelligent Buoyancy Transmitter with Displacer	**244LVP**									161014
Flange Material: (Process wettet)										
1.4571 (316Ti)		-S								
Sensor Material: (Process Wetted)										
316L / 1.4435 / 1.4404			S							
Flange Size										
DN 50				5						
DN 80				8						
DN 100 (PN 25 / PN 40 only)				9						
2-Inch				2						
3-Inch				3						
4-Inch				4						
Flange Pressure Rating & Contact Face										
PN16 to PN40, B1 (DIN EN 1092-1)					(a)	B1				
PN16 to PN40, B2 (DIN EN 1092-1)					(a)	B2				
PN63, B2 (DIN EN 1092-1)					(r)	B3				
PN100, B2 (DIN EN 1092-1)					(r)	B4				
PN160, B2 (DIN EN 1092-1)					(r)	B5				
PN16 to PN40, D (DIN EN 1092-1)					(a)	D1				
PN63, D (DIN EN 1092-1)					(r)	D2				
PN100, D (DIN EN 1092-1)					(r)	D3				
PN160, D (DIN EN 1092-1)					(r)	D4				
ANSI Class 150, RF RF/SF (RF125)					(b)	R1				
ANSI Class 300, RF RF/SF (RF125)					(c)	R2				
ANSI Class 600, RF RF/SF (RF125)					(s)	R3				
ANSI Class 900, RF RF/SF (RF125)					(s)	R4				
ANSI Class 150, RJF					(b)	J1				
ANSI Class 300, RJF					(c)	J2				
ANSI Class 600, RJF					(s)	J3				
ANSI Class 900, RJF					(s)	J4				
Version										
Base Version LEVELSTAR							N			
Cable Entry										
M20x1.5 without Cable Gland								M		
1/2-14 NPT without Cable Gland								N		
Communication										
HART									H	
FOUNDATION Fieldbus H1					(o)				B	
Electrical Classification										
ATEX intrinsic safe, Zone 1 - IIC T4										1C4
ATEX intrinsic safe, Zone 1 - IIC T6										1C6
ATEX intrinsic safe, Zone 2 - IIC T4										2C4
ATEX intrinsic safe, Zone 2 - IIC T6										2C6
ATEX intrinsic safe Zone 1 - IIB T6										D1B
ATEX explosionproof, Zone 1 - IIC T6										D1C
FM Nonincendive					(m)					NFM
FM Explosionproof					(d)					FDZ
GOST-R Intrinsically Safe Zone 1 - IIC T6										GA1
GOST-R Intrinsically Safe Zone 2 - IIC T6										GA2
GOST-R explosion proof Zone 1 - IIC T6										GD1
Nepsi Intrinsically Safe T6					(d)					NA6
Nepsi explosion proof					(d)					NDZ
Brasil Intrinsically Safe T6					(d)					BA6
Brasil explosion proof					(d)					BDZ

(continued on next page)

MODEL CODES 244LVP (continued)

Electrical Classification (cont'd)		
CSA Explosionproof	(m)(d)	CDZ
FM Intrinsically Safe	(m)	FAA
CSA Intrinsically Safe	(d)	CAA
For General Purpose Areas, not Explosionproof		ZZZ
OPTIONS		
Housing Complete Stainless Steel Without External Pushbuttons		-H
External Pushbottons for Maintenance	(n)	-M
Interface measurement, Displacer >2.5 kg (5.5 lb)	(t)	-I
Tag No. Labeling		
Stainless Steel Label Fixed With Wire		-L
Stainless Steel Label Fixed On Amplifier		-F
Certificates		
EN 10204-2.1, Certificate Of Compliance		-1
EN 10204-2.2, Specific Test Report (Calibration)		-2
EN 10204-3.1, Inspection Certificate Of Process Wetted Metallic Material		-3
Comply with NACE Standard MR-01-75	(e)(f)	-6
SIL 2 Certificate		-Q
Amplifier for selected code (244LVP-*********-X)	(n)	-X

(a) Available with Flange Size 5, 8, 9
(b) Available with Flange Size 2, 3, 4
(c) Available with Flange Size 2, 3
(d) Pending
(e) Only with Sensor Material S
(f) Restrictions concerning the limit of application for the used materials are considerable (NACE Standard MR-0175/2003, resp. ISO 15156-3)
(i) Only with Electrical Classification 1C4, 1C6, D1B, D1C, 2C4,GA1, GA2, GD1, NA6, NDZ, BA6, BDZ, ZZZ
(k) Pending for Version N 1C6, 1B6
(m) Only Version N
(n) Not with Options -H
(o) With Electrical Classification D1B or ZZZ
(r) Available with Flange Size 8, 9
(s) Available with Flange Size 3, 4
(t) Only with Flange Pressure and Contact Face: B1, B2, B3, B4, D1, D2, D3, J1, J2, J3, J4, R1, R2, R3, R4

Accessories for Transmitter 244LVP *LevelStar*: Displacer 204DE

Typical Dimensions and Weights for Density Ranges $\Delta\rho$ 1)

Material	316L (1.4404 / 1.4435) 2)									PTFE / PTFE with 25 % C				Hastelloy C			
Code	-S (PN 100)				-T 3) (PN 40 / 63)					-S (PN 250)				-S (PN 500)				-S (PN 100 / 160)			
	Density Range $\Delta\rho$																			
	250 ... 1500 kg/m³				300 ... 600 kg/m³					400 ... 2000 kg/m³				200 ... 1500 kg/m³				300 ... 1500 kg/m³			
Len. L	∅ mm	Vol. cm³	Wei. N	PN bar	∅ mm	Vol. cm³	Wei. N	PN bar	ρ_{min} 4) kg/m³	∅ mm	Vol. cm³	Wei. N	PN bar	∅ mm	Vol. cm³	Wei. N	PN bar	∅ mm	Vol. cm³	Wei. N	PN bar
mm																					
350	60.3	1000	19	100	101.6	2840	38	40	460	42.4	500	18	250	62	1056	23	500	60.3	1000	18	100
500	48.3	920	17	100	88.9	3100	43	63	580	42.4	710	24	250	51	1021	23	500	48.3	920	19	100
750	42.4	1060	21	100	76.1	3410	44	63	545	33.7	670	21	250	42	1039	24	500	48.3	1370	27	100
1000	33.7	890	17	100	60.3	2855	41	63	545	26.9	570	18	250	35	961	21	500	33.7	890	19	100
1200	33.7	1070	20	100	60.3	3425	48	63	675	26.9	680	22	250	35	1153	25	500	33.7	1070	22	100
1500	26.9	850	16	100	51	3065	39	63	460	21.3	540	17	250	30	1060	24	500	26.9	850	18	160
1800	26.9	1020	19	100	42.4	2540	38	63	495	21.3	640	20	250	28	1107	25	500	26.9	1020	21	160
2000	26.9	1140	21	100	42.4	2825	41	63	565	21.3	710	22	250	25	981	22	500	26.9	1140	23	160
2500	21.3	890	20	100	38	2840	37	63	425	17.2	580	16	250	22.5	993	23	500	21.3	890	23	160
3000	21.3	1070	24	100	38	3400	45	63	575	17.2	700	23	250	20	942	22	500	21.3	1070	27	160
inch																					
14	60.3	1020	20	100	101.6	2885	38	40	455	42.4	510	18	250	62	1074	23	500	60.3	1020	18	100
32	42.4	1150	23	100	76.1	3700	47	63	595	33.7	730	23	250	42	1126	26	500	33.7	720	16	100
48	33.7	1090	20	100	60.3	3480	49	63	680	26.9	690	22	250	35	1171	26	500	33.7	1090	23	100
60	26.9	870	16	100	51	3115	40	63	465	21.3	540	18	250	30	1076	24	500	26.9	870	18	100
72	26.9	1040	19	100	42.4	2580	38	63	505	21.3	650	21	250	28	1124	26	500	26.9	1040	21	160
84	26.9	1210	22	100	42.4	3000	44	63	635	21.3	760	23	250	25	1046	24	500	26.9	1210	25	160
96	21.3	870	20	100	38	2765	37	63	420	17.2	570	16	250	22.5	968	22	500	21.3	870	23	160
120	21.3	1090	25	100	38	3455	46	63	595	17.2	710	24	250	20	957	22	500	21.3	1090	25	160

1) $\Delta\rho = \rho1 - \rho2$
$\rho1$ = density of lower medium
$\rho2$ = density of upper medium

2) Using displacer material 1.4571 can cause small deviations in diameter, volume and weight.

3) For measurement of interface or density, the max. density of the lower medium is 1350 kg/m³.

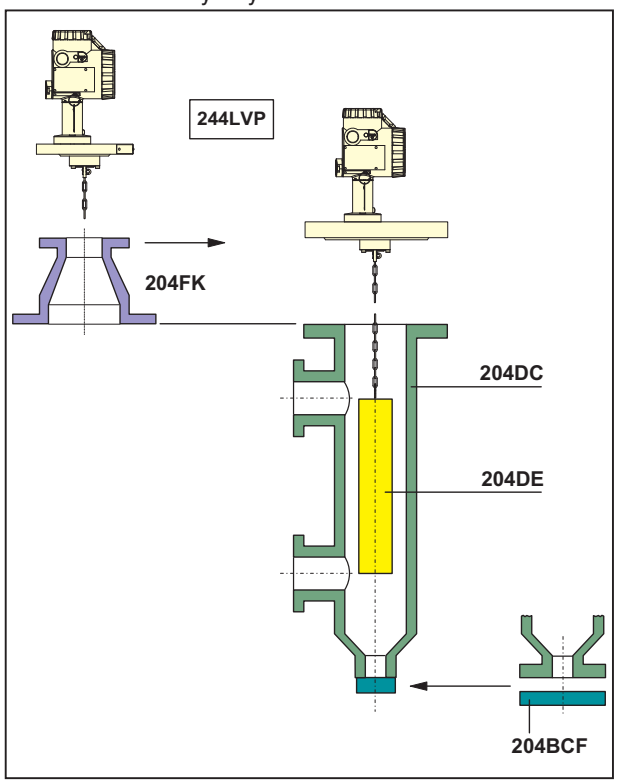
4) Min. density of the lower medium

If a Displacer Chamber is used, the difference between the diameter of the Displacer and the inside diameter of the Displacer Chamber must be at least 10 mm.

Lengths < 350 mm and > 3000 mm, and density ranges < 300 kg/m³ and > 2000 kg/m³ on request.

Accessories

For Displacer Chamber 204DC, Flange combination 204FK and Cover Flange Kit 204BCF see PSS EML0901, 204xx Accessories for Buoyancy Transmitter.



MODEL CODES 204DE

Displacer for Buoyancy Transmitters from 2N buoyancy up to 20N 204DE					210814
RANGE OF APPLICATION: (a)					
Liquid Level - Media: Liquid / Gas or Air					
(Density difference = 250 kg/m³ to 2000 kg/m³)					
(= $9x10^{-3}$ lbm/in^3 to $72.2x10^{-3}$ lbm/in^3)	-S				
Interface Level / Density - Media: Liquid 1 / Liquid 2					
(Density difference = 300 kg/m³ to 600 kg/m³)					
(= $10.8x10^{-3}$ lbm/in^3 to 22.7x10-3 lbm/in^3) (g)(h)	-T				
DISPLACER MATERIAL:					
316L (1.4404 / 1.4435 / 1.4571)		S			
321 (1.4541)		H			
PTFE (not for applications in Zone 0)		P			
PTFE with 25% Carbon		O			
Hastelloy C		C			
Inconel 625 (2.4856) (e)		R			
Monel 400 (2.4360) (e)		M			
Titan (3.7035) (e)		T			
PRESSURE RATING:					
Up to PN 100 / Class 600			D		
Up to PN 160 / Class 900			E		
Up to PN 250 / Class 1500			F		
Up to PN 500 / Class 2500			G		
SUITABLE FOR FLANGE SIZE: (at Top of vessel/chamber)					
DN 50				0	
DN 70				1	
DN 80				2	
DN 100				3	
DN 150				4	
2 inch				5	
3 inch				6	
4 inch				7	
6 inch				8	
DISPLACER LENGTH "L": (inches are approx.)					
for Displacer Material codes P and O:					
300 mm (12 in) to 2000 mm (79 in) without partitioning					A
2001 mm (79 in) to 4000 mm (157 in) One partition point					B
4001 mm (157 in) to 6000 mm (236 in) Two partition points					C
6001 mm (236 in) to 8000 mm (315 in) Three partition points					D
8001 mm (315 in) to 10000 mm (394 in) Four partition points					E
10001 mm (394 in) to 12000 mm (472 in) Five partition points					F
for Displacer Material S, H, C, R, M and T:					
300 mm (12 in) to 3000 mm (118 in) without partitioning					K
3001 mm (118 in) to 6000 mm (236 in) One partition point					L
6001 mm (236 in) to 9000 mm (354 in) Two partition points					M
9001 mm (354 in) to 12000 mm (472 in) Three partition points					N
12001 mm (472 in) to 15000 mm (591 in) Four partition points					O
MATERIAL AND LENGTH OF THE SUSPENSION: (Length "b") (d)					
316L / 1.4404 / … Standard length of Suspension (b)					S1
316L / 1.4404 / ... Customized Suspension Length (c)					S2
321 / 1.4541 Standard length of Suspension (b)					H1
321 / 1.4541 Customized Suspension Length (c)					H2
Hastelloy C Standard length of Suspension (b)					C1
Hastelloy C Customized Suspension Length (c)					C2
Inconel Standard length of Suspension (b)					I1
Inconel Customized Suspension Length (c)					I2
Monel Standard length of Suspension (b)					M1
Monel Customized Suspension Length (c)					M2
Titan Standard length of Suspension (b)					T1
Titan Customized Suspension Length (c)					T2

(continued on next page)

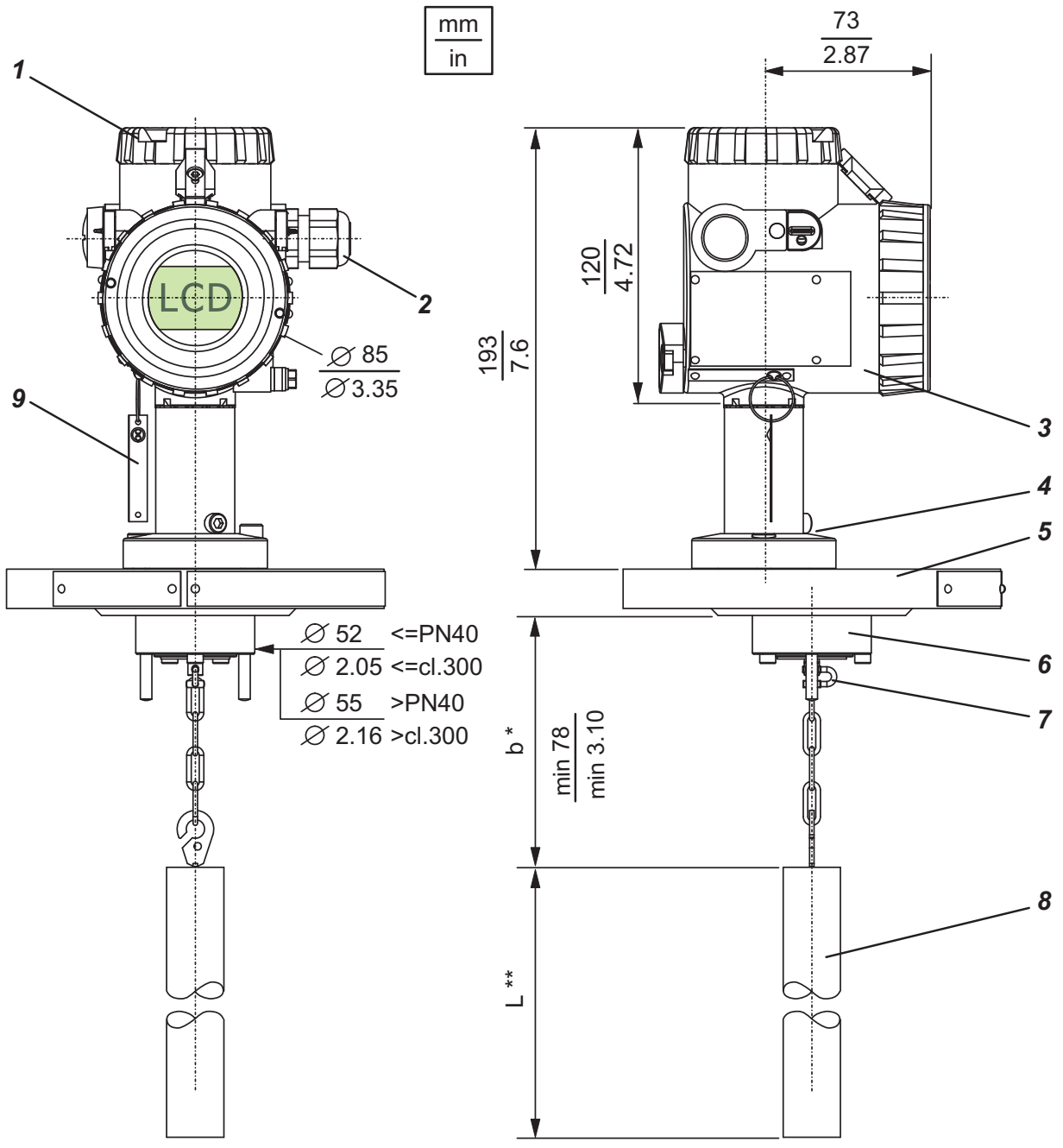
MODEL CODES 204DE (continued)

OPTIONS:

For application in Zone 0 (Additional grounding rope) (not available with Displacer Material: P)	-E
Damping Spring (Mat. 1.4310, max. 250 °C (482 °F)) (f)	-D
Damping Spring (Mat. HC, max 350 °C (662 °F)) (f)	-C
Free of oil and fat.	-O
Density difference > 300 kg/m^3 (a)	-K
Tag No. Labeling Stainless Steel Label Fixed With Wire (Text required)	-L
Certificates	
EN 10204-2.1 Certificate Of Compliance	-1
EN 10204-3.1 Inspection Certificate Of Process Wetted Material (not available with Displacer Material: P and O)	-3
PMI - Test (not available with Displacer Material: P and O)	-5

(a) Upper and Lower Medium Density required (at operating temperature)
(b) Only in connection with Modelcode 204DC
(c) Exact length required (Contact face of flange to upper end of displacer)
(d) +/- 8 mm (+/- 0.3 inch)
(e) On ECEP request
(f) Required for 244LD with Option -G
(g) Only with PRESSURE RATING: D. Consult factory if pressure rating is F or G
(h) Option K required

DIMENSIONS 244LVP with Displacer Element 204DE



1 Connecting compartment cover
2 Cable entry with screwed gland
3 Amplifier housing
4 Disconnection of sensor from the amplifier
5 Connection flange (as per DIN / ANSI)
6 Measuring cell
7 Suspension
8 Displacer 204DE
9 Steel label with Tag.No.

* Suited to the dimensions of FOXBORO - displacer, other lenghts on request

** L (measuring range) see table page 10.

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