

Overview

SITRANS LC300 is an inverse frequency shift capacitance continuous level transmitter for liquid, interface, and solid applications. It is ideal for standard industrial applications in chemical, hydrocarbon processing, food and beverage, water, wastewater, mining, aggregate, and cement industries.

Benefits

- Active-Shield technology so measurement is unaffected by material buildup in active shield section
- Highly accurate and reliable PFA-lined probes
- Integrated local LCD display
- 2-wire (4 to 20 mA) current loop design
- Current signaling according to NAMUR NE 43
- Push-button calibration and programming
- Stilling well (ground tube) version for low dielectric media, agitated materials, and non-metallic vessels

Application

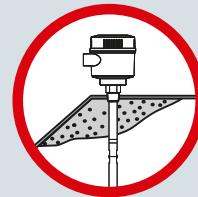
SITRANS LC300 is a 2-wire level measurement instrument combining a sophisticated, yet easy-to-adjust microprocessor with field-proven probes. It is available in four versions: rod, rod with stilling well, cable with PFA insulation, and cable without PFA insulation.

Materials with low or high dielectric properties are accurately measured and Active-Shield technology helps in ignoring the effects of buildup or condensation near vessel nozzle.

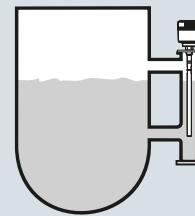
- Key Applications: conductive ($dK \geq 20$) and non-conductive ($dK < 20$) media including: liquids and solids in standard industrial processes, bulk solids applications involving dust, and chemical processes involving vapor

Probe Applications

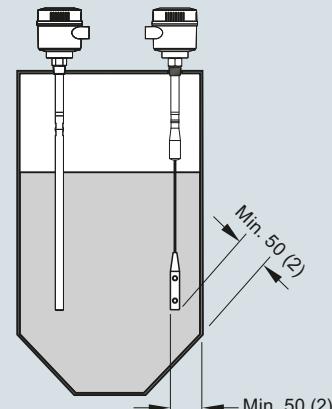
Rod version	Conductive liquids, slurries or solids
Rod version with stilling well	<ul style="list-style-type: none"> • Conductive liquids or slurries in non-conductive tanks • Non-conductive liquids in non-conductive tanks • Tanks with agitation or turbulent liquids • Liquids with a dielectric constant below 2 • Non-linear tanks, such as parabolic or spherical tanks • Interface measurements
Cable version	Non-conductive solids or liquids
PFA coated cable version	Conductive or sticky liquids, slurries or solids

Configuration**Installation**

Build up of material in active shield area does not affect switch operation.



Mounting on a bypass



Install probe at least 50 (2) from tank wall.
 Note angle of repose and adjust accordingly.

SITRANS LC300 installation, dimensions in mm (inch)

Level measurement

Continuous level measurement Capacitance transmitters

SITRANS LC300

Technical specifications

Level measurement

Continuous level measurement Capacitance transmitters

SITRANS LC300

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Selection and ordering data**Article No.****Article No.****SITRANS LC300 Capacitance level transmitter,
rod design**

Continuous, contact, monitors level or interface in liquids or solids. Extension options up to 5 m (16.40 ft).

↗ Click on the Article No. for the online configuration in the PIA Life Cycle Portal.

Process connection

Threaded, 316L stainless steel

¾" NPT [(Taper), ANSI/ASME B1.20.1]

1" NPT [(Taper), ANSI/ASME B1.20.1]

1½" NPT [(Taper), ANSI/ASME B1.20.1]

1½" NPT [(Taper), ANSI/ASME B1.20.1]

R ¾" [(BSPT), EN 10226/PT (JIS-T), JIS B 0203]

R 1" [(BSPT), EN 10226/PT (JIS-T), JIS B 0203]

R 1½" [(BSPT), EN 10226/PT (JIS-T), JIS B 0203]

G ¾" [(BSPP), EN ISO 228-1/PF (JIS-P), JIS B 0202]

G 1" [(BSPP), EN ISO 228-1/PF (JIS-P), JIS B 0202]

G 1½" [(BSPP), EN ISO 228-1/PF (JIS-P), JIS B 0202]

Welded flange, 316L stainless steel, raised face¹⁾

1" ASME, 150 lb

1" ASME, 300 lb

1" ASME, 600 lb

1½" ASME, 150 lb

1½" ASME, 300 lb

1½" ASME, 600 lb

2" ASME, 150 lb

2" ASME, 300 lb

2" ASME, 600 lb

3" ASME, 150 lb

3" ASME, 300 lb

3" ASME, 600 lb

4" ASME, 150 lb

4" ASME, 300 lb

4" ASME, 600 lb

Welded flange, 316L stainless steel,**Type A flat faced¹⁾**

DN 25, PN 16

DN 25, PN 40

DN 40, PN 16

DN 40, PN 40

DN 50, PN 16

DN 50, PN 40

DN 80, PN 16

DN 80, PN 40

DN 100, PN 16

DN 100, PN 40

Sanitary, hastelloy, duplex or other custom process connections available.

Please contact a local sales person for details.

For more information, please visit http://www.automation.siemens.com/aspa_app.

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5 D

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6 J

6 K

**SITRANS LC300 Capacitance level transmitter,
rod design**

Continuous, contact, monitors level or interface in liquids or solids. Extension options up to 5 m (16.40 ft).

**Probe Length
(from flange face or including process thread)**

Add Order code Y01 and plain text: "Insertion length ... mm"

300 ... 1 000 mm (11.81 ... 39.37 inch)

1 001 ... 2 000 mm (39.41 ... 78.74 inch)

2 001 ... 3 000 mm (78.78 ... 118.11 inch)

3 001 ... 4 000 mm (118.15 ... 157.48 inch)

4 001 ... 5 000 mm (157.52 ... 196.85 inch)

Bent probes also available. Please contact a local sales person for details.

For more information, please visit http://www.automation.siemens.com/aspa_app.

Thermal isolator

Without thermal isolator

With thermal isolator [for process connection temperatures over 85 °C (185 °F)]

Wetted seals

FKM

FFKM [for process temperatures above -20 °C (4 °F)²⁾]

Probe material

19 mm (0.75 inch) diameter 316L stainless steel, PFA lined rod

Approvals

General Safety (CSA, FM, CE, RCM)

Dust Ignition Proof With IS Probe

CE, RCM, ATEX II 1/2 D T100 °C

Flame Proof Enclosure With IS Probe

CE, RCM, ATEX II 1/2 G EEx d [ia] IIC T6 ... T1,

ATEX II 1/2 D T100 °C

Dust Ignition Proof With IS Probe

CSA/FM Class II, Div. 1, Groups E, F, G

CSA/FM Class III T4

Explosion Proof Enclosure With IS Probe

CSA/FM Class I, Div. 1, Groups A, B, C, D

CSA/FM Class II, Div. 1, Groups E, F, G

CSA/FM Class III T4

Enclosure

Aluminum epoxy coated 2 x ½" NPT via adapter - cable inlet, IP65

Aluminum epoxy coated 2 x M20 x 1.5 cable inlet, IP65

Aluminum epoxy coated 2 x ½" NPT via adapter - cable inlet, IP68

Aluminum epoxy coated 2 x M20 x 1.5 cable inlet, IP68

Stainless steel, contact local sales person for details. For more information, please visit http://www.automation.siemens.com/aspa_app

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Level measurement

Continuous level measurement
Capacitance transmitters

SITRANS LC300

Selection and ordering data	Order code
<i>Further designs</i>	
Please add "-Z" to Article No. and specify Order code(s).	
Insertion length, specify in plain text: Y01: ... mm	Y01
Stainless steel tag [70 x 13 mm (2.75 x 0.5 inch)]: Measuring-point number/identification (max. 27 characters) specify in plain text	Y15
Manufacturer's Test Certificate: M to DIN 55350, Part 18 and to ISO 9000	C11
Material inspection Certificate Type 3.1 per EN 10204	C12
INMETRO ¹⁾	E34
<i>Operating Instructions</i>	
All literature is available to download for free, in a range of languages, at	
http://www.siemens.com/processinstrumentation/documentation	
<i>Accessories</i>	Article No.
Electronic transmitter kit (includes transmitter and driver)	7ML1830-1KN
SITRANS RD100, loop powered display - see Chapter 7	7ML5741-.....
SITRANS RD150, remote digital display for 4 ... 20 mA and HART devices - see Chapter 7	7ML5742-.....
SITRANS RD200, universal input display with Modbus conversion - see Chapter 7	7ML5740-.....
SITRANS RD300, dual line display with totalizer and linearization curve and Modbus conversion - see Chapter 7	7ML5744-.....
For applicable back up point level switch - see point level measurement section	

¹⁾ Available only with Approvals options A and B.

Level measurement

Continuous level measurement Capacitance transmitters

SITRANS LC300

Selection and ordering data**Article No.****Article No.****SITRANS LC300 Capacitance level transmitter,
stilling well design**

Continuous, contact, monitors level or interface in liquids. Extension options up to 5 m (16.40 ft).

↗ Click on the Article No. for the online configuration in the PIA Life Cycle Portal.

Process connection

Threaded, 316L stainless steel

1½" NPT [(Taper), ANSI/ASME B1.20.1]

R 1½" [(BSPT), EN 10226/PT (JIS-T), JIS B 0203]

G 1½" [(BSP), EN ISO 228-1/PF (JIS-P),
JIS B 0202]

Welded flange, 316L stainless steel, raised face¹⁾

1½" ASME, 150 lb

1½" ASME, 300 lb

1½" ASME, 600 lb

2" ASME, 150 lb

2" ASME, 300 lb

2" ASME, 600 lb

3" ASME, 150 lb

3" ASME, 300 lb

3" ASME, 600 lb

4" ASME, 150 lb

4" ASME, 300 lb

4" ASME, 600 lb

**Welded flange, 316L stainless steel,
Type A flat faced¹⁾**

DN 40, PN 16

DN 40, PN 40

DN 50, PN 16

DN 50, PN 40

DN 80, PN 16

DN 80, PN 40

DN 100, PN 16

DN 100, PN 40

Sanitary, hastelloy, duplex or other custom process connections available.

Please contact a local sales person for details.

For more information, please visit

http://www.automation.siemens.com/aspa_app.

**Probe Length
(from flange face or including process thread)**

Add Order code Y01 and plain text:

"Insertion length ... mm"

300 ... 1 000 mm (11.81 ... 39.37 inch)

1 001 ... 2 000 mm (39.41 ... 78.74 inch)

2 001 ... 3 000 mm (78.78 ... 118.11 inch)

3 001 ... 4 000 mm (118.15 ... 157.48 inch)

4 001 ... 5 000 mm (157.52 ... 196.85 inch)

Thermal isolator

Without thermal isolator

With thermal isolator [for process connection temperatures over 85 °C (185 °F)]

Wetted seals

FKM

FFKM [for process temperatures above -20 °C (4 °F)]²⁾

Probe material

35 mm (1.38 inch) diameter stilling well,
with 19 mm (0.75 inch) diameter 316L
stainless steel, PFA lined rod with PTFE spacers

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**SITRANS LC300 Capacitance level transmitter,
stilling well design**

Continuous, contact, monitors level or interface in liquids. Extension options up to 5 m (16.40 ft).

Approvals

General Safety (CSA, FM, CE, RCM)

Dust Ignition Proof With IS Probe
CE, RCM, ATEX II 1/2 D T100 °C

Flame Proof Enclosure With IS Probe
CE, RCM, ATEX II 1/2 G EEx d [ia] IIC T6 ... T1,
ATEX II 1/2 D T100 °C

Dust Ignition Proof With IS Probe
CSA/FM Class II, Div. 1, Groups E, F, G
CSA/FM Class III T4

Explosion Proof Enclosure With IS Probe
CSA/FM Class I, Div. 1, Groups A, B, C, D
CSA/FM Class II, Div. 1, Groups E, F, G
CSA/FM Class III T4

Enclosure

Aluminum epoxy coated 2 x 1½" NPT via
adapter - cable inlet, IP65

Aluminum epoxy coated 2 x M20 x 1.5 cable inlet,
IP65

Aluminum epoxy coated 2 x 1½" NPT via
adapter - cable inlet, IP68

Aluminum epoxy coated 2 x M20 x 1.5 cable inlet,
IP68

Stainless steel, please contact a local sales person
for details.

For more information, please visit
http://www.automation.siemens.com/aspa_app.

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Further designs

Please add "-Z" to Article No.
and specify Order code(s).

Order code

Insertion length, specify in plain text: Y01: ... mm

Y01

Stainless steel tag (70 x 13 mm (2.75 x 0.5 inch)):
Measuring-point number/identification
(max. 27 characters) specify in plain text

Y15

Manufacturer's Test Certificate: M to DIN 55350,
Part 18 and to ISO 9000

C11

Material inspection Certificate Type 3.1 per
EN 10204

C12

INMMETRO¹⁾

E34

Operating Instructions

All literature is available to download for free, in a
range of languages, at

<http://www.siemens.com/processinstrumentation/documentation>

Accessories

Electronic transmitter kit
(includes transmitter and driver)

Article No.

7ML1830-1KN

SITRANS RD100, loop powered display -
see Chapter 7

7ML5741-.....

SITRANS RD150, remote digital display for
4 ... 20 mA and HART devices - see Chapter 7

7ML5742-.....

SITRANS RD200, universal input display with
Modbus conversion - see Chapter 7

7ML5740-.....

SITRANS RD300, dual line display with totalizer and
linearization curve and Modbus conversion -
see Chapter 7

7ML5744-.....

For applicable back up point level switch -
see point level measurement section

¹⁾ Available only with Approvals options A and B.

Level measurement

Continuous level measurement
Capacitance transmitters

SITRANS LC300

Selection and ordering data

SITRANS LC300 Capacitance level transmitter, cable design

Continuous, contact, monitors level or interface in liquids or solids. Extension options up to 25 m (82.02 ft).

↗ Click on the Article No. for the online configuration in the PIA Life Cycle Portal.

Process connection

Threaded, 316L stainless steel

1½" NPT [(Taper), ANSI/ASME B1.20.1]
R 1½" [(BSPT), EN 10226/PT (JIS-T), JIS B 0203]
G 1½" [(BSP), EN ISO 228-1/PF (JIS-P), JIS B 0202]

Welded flange, 316L stainless steel, raised face¹⁾

1½" ASME, 150 lb
1½" ASME, 300 lb
1½" ASME, 600 lb
2" ASME, 150 lb
2" ASME, 300 lb
2" ASME, 600 lb
3" ASME, 150 lb
3" ASME, 300 lb
3" ASME, 600 lb
4" ASME, 150 lb
4" ASME, 300 lb
4" ASME, 600 lb

Welded flange, 316L stainless steel, type A flat faced¹⁾

DN 40, PN 16
DN 40, PN 40
DN 50, PN 16
DN 50, PN 40
DN 80, PN 16
DN 80, PN 40
DN 100, PN 16
DN 100, PN 40

Sanitary, hastelloy, duplex or other custom process connections available.

Please contact a local sales person for details.
For more information, please visit
http://www.automation.siemens.com/aspa_app.

Probe Length (from flange face or including process thread)

Add Order code Y01 and plain text: "Insertion length ... mm"

1 000 ... 2 000 mm (39.37 ... 78.74 inch)
2 001 ... 4 000 mm (78.78 ... 157.48 inch)
4 001 ... 6 000 mm (157.52 ... 236.22 inch)
6 001 ... 8 000 mm (236.26 ... 314.96 inch)
8 001 ... 10 000 mm (315.00 ... 393.70 inch)
8 001 ... 10 000 mm (315.00 ... 393.70 inch)
12 001 ... 14 000 mm (472.48 ... 551.18 inch)
14 001 ... 16 000 mm (551.22 ... 629.92 inch)²⁾
16 001 ... 18 000 mm (629.96 ... 708.66 inch)²⁾
18 001 ... 20 000 mm (708.70 ... 787.40 inch)²⁾
20 001 ... 22 000 mm (787.44 ... 866.14 inch)²⁾
22 001 ... 24 000 mm (866.18 ... 944.88 inch)²⁾
24 001 ... 25 000 mm (944.92 ... 984.25 inch)²⁾

Thermal isolator

Without thermal isolator

With thermal isolator [for process connection temperatures over 85 °C (185 °F)]

Wetted seals

FKM

FFKM [for process temperatures above -20 °C (4 °F)]³⁾

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SITRANS LC300 Capacitance level transmitter, cable design

Continuous, contact, monitors level or interface in liquids or solids. Extension options up to 25 m (82.02 ft).

Probe material

Bare 316L stainless steel cable and 316L stainless steel cable weight, tinned copper crimp, PTFE backing ring, PEEK isolator and PFA lined active shield

Approvals

General Safety (CSA, FM, CE, RCM)

Dust Ignition Proof With IS Probe
CE, RCM, ATEX II 1/2 D T100 °C

Flame Proof Enclosure With IS Probe
CE, RCM, ATEX II 1/2 G EEx d [ia] IIC T6 ... T1,
ATEX II 1/2 D T100 °C

Dust Ignition Proof With IS Probe
CSA/FM Class II, Div. 1, Groups E, F, G
CSA/FM Class III T4

Explosion Proof Enclosure With IS Probe
CSA/FM Class I, Div. 1, Groups A, B, C, D
CSA/FM Class II, Div. 1, Groups E, F, G
CSA/FM Class III T4

Enclosure

Aluminum epoxy coated 2 x ½" NPT via adapter - cable inlet, IP65

Aluminum epoxy coated 2 x M20 x 1.5 cable inlet, IP65

Aluminum epoxy coated 2 x ½" NPT via adapter - cable inlet, IP68

Aluminum epoxy coated 2 x M20 x 1.5 cable inlet, IP68

Stainless steel, please contact a local sales person for details.

For more information, please visit

http://www.automation.siemens.com/aspa_app.

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¹⁾ Flange bolting patterns and facings dimensionally correspond to the applicable ASME B16.5 or EN 1092-1 standard.

²⁾ Cable lengths from 15 000 mm (590.55 inch) to 25 000 mm (984.25 inch) can be used in non-conductive media. Contact Factory for assistance.

³⁾ Not available with FM approvals.

Selection and ordering data	Order code
Further designs Please add "-Z" to Article No. and specify Order code(s).	
Insertion length, specify in plain text: Y01: ... mm	Y01
Stainless steel tag [70 x 13 mm (2.75 x 0.5 inch)]: Measuring-point number/identification (max. 27 characters) specify in plain text	Y15
Manufacturer's Test Certificate: M to DIN 55350, Part 18 and to ISO 9000	C11
Material inspection Certificate Type 3.1 per EN 10204	C12
INMETRO ¹⁾	E34
Operating Instructions All literature is available to download for free, in a range of languages, at http://www.siemens.com/processinstrumentation/documentation	
Accessories Electronic transmitter kit (includes transmitter and driver)	Article No. 7ML1830-1KN
SITRANS RD100, loop powered display - see Chapter 7	7ML5741-.....
SITRANS RD150, remote digital display for 4 ... 20 mA and HART devices - see Chapter 7	7ML5742-.....
SITRANS RD200, universal input display with Modbus conversion - see Chapter 7	7ML5740-.....
SITRANS RD300, dual line display with totalizer and linearization curve and Modbus conversion - see Chapter 7	7ML5744-.....
For applicable back up point level switch - s ee point level measurement section	

¹⁾ Available only with Approvals options A and B.

Level measurement

Continuous level measurement
Capacitance transmitters

SITRANS LC300

Selection and ordering data

SITRANS LC300 Capacitance level transmitter, PFA coated cable design

Continuous, contact, monitors level or interface in liquids or solids. Extension options up to 25 m (82.02 ft).

↗ Click on the Article No. for the online configuration in the PIA Life Cycle Portal.

Process connection

Threaded, 316L stainless steel

1½" NPT [(Taper), ANSI/ASME B1.20.1]
R 1½" [(BSPT), EN 10226/PT (JIS-T), JIS B 0203]
G 1½" [(BSP), EN ISO 228-1/PF (JIS-P),
JIS B 0202]

Welded flange, 316L stainless steel, raised face¹⁾

1½" ASME, 150 lb
1½" ASME, 300 lb
1½" ASME, 600 lb
2" ASME, 150 lb
2" ASME, 300 lb
2" ASME, 600 lb
3" ASME, 150 lb
3" ASME, 300 lb
3" ASME, 600 lb
4" ASME, 150 lb
4" ASME, 300 lb
4" ASME, 600 lb

Welded flange, 316L stainless steel, Type A flat faced¹⁾

DN 40, PN 16
DN 40, PN 40
DN 50, PN 16
DN 50, PN 40
DN 80, PN 16
DN 80, PN 40
DN 100, PN 16
DN 100, PN 40

Sanitary, hastelloy, duplex or other custom process connections available.

Please contact a local sales person for details.
For more information, please visit
http://www.automation.siemens.com/aspa_app.

Probe Length (from flange face or including process thread)

Add Order code Y01 and plain text: "Insertion length ... mm"

1 000 ... 2 000 mm (39.37 ... 78.74 inch)
2 001 ... 4 000 mm (78.78 ... 157.48 inch)
4 001 ... 6 000 mm (157.52 ... 236.22 inch)
6 001 ... 8 000 mm (236.26 ... 314.96 inch)
8 001 ... 10 000 mm (315.00 ... 393.70 inch)
10 001 ... 12 000 mm (393.74 ... 472.44 inch)
12 001 ... 14 000 mm (472.48 ... 551.18 inch)
14 001 ... 16 000 mm (551.22 ... 629.92 inch)²⁾
16 001 ... 18 000 mm (629.96 ... 708.66 inch)²⁾
18 001 ... 20 000 mm (708.70 ... 787.40 inch)²⁾
20 001 ... 22 000 mm (787.44 ... 866.14 inch)²⁾
22 001 ... 24 000 mm (866.18 ... 944.88 inch)²⁾
24 001 ... 25 000 mm (944.92 ... 984.25 inch)²⁾

Thermal isolator

Without thermal isolator

With thermal isolator [for process connection temperatures over 85 °C (185 °F)]

Article No.

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SITRANS LC300 Capacitance level transmitter, PFA coated cable design

Continuous, contact, monitors level or interface in liquids or solids. Extension options up to 25 m (82.02 ft).

Wetted seals

FKM
FFKM [for process temperatures above -20 °C (-4 °F)]³⁾

Probe material

PFA coated cable and 316L stainless steel cable weight, PEEK isolator and PFA lined active shield

Approvals

General Safety (CSA, FM, CE, RCM)
Dust Ignition Proof With IS Probe
CE, RCM, ATEX II 1/2 D T100 °C
Flame Proof Enclosure With IS Probe
CE, RCM, ATEX II 1/2 G EEx d [ia] IIC T6 ... T1,
ATEX II 1/2 D T100 °C
Dust Ignition Proof With IS Probe
CSA/FM Class II, Div. 1, Groups E, F, G
CSA/FM Class III T4
Explosion Proof Enclosure With IS Probe
CSA/FM Class I, Div. 1, Groups A, B, C, D
CSA/FM Class II, Div. 1, Groups E, F, G
CSA/FM Class III T4

Enclosure

Aluminum epoxy coated 2 x ½" NPT via adapter - cable inlet, IP65
Aluminum epoxy coated 2 x M20 x 1.5 cable inlet, IP65
Aluminum epoxy coated 2 x ½" NPT via adapter - cable inlet, IP68
Aluminum epoxy coated 2 x M20 x 1.5 cable inlet, IP68
Stainless steel, please contact a local sales person for details.
For more information, please visit
http://www.automation.siemens.com/aspa_app.

Mounting eye

Without Mounting eye

With mounting eye

¹⁾ Flange bolting patterns and facings dimensionally correspond to the - applicable ASME B16.5 or EN 1092-1 standard.

²⁾ Cable lengths from 15 000 mm (590.55 inch) to 25 000 mm (984.25 inch) can be used in non-conductive media. Contact Factory for assistance.

³⁾ Not available with FM approvals.

Selection and ordering data	Article No.	Article No.
Further designs Please add "-Z" to Article No. and specify Order code(s).		
Insertion length, specify in plain text: Y01: ... mm	Y01	LC300 Specials¹⁾
Stainless steel tag [70 x 13 mm (2.75 x 0.5 inch)]: Measuring-point number/identification (max. 27 characters) specify in plain text	Y15	LC300 Cable Extensions, 316L stainless steel
Manufacturer's Test Certificate: M to DIN 55350, Part 18 and to ISO 9000	C11	Kit, Stainless steel cable extension, 1 m, adjustable by customer A5E01163688
Material inspection Certificate Type 3.1 per EN 10204	C12	Kit, Stainless steel cable extension, 3 m, adjustable by customer A5E01163689
INMETRO ¹⁾	E34	Kit, Stainless steel cable extension, 5 m, adjustable by customer A5E01163690
		Kit, Stainless steel cable extension, 10 m, adjustable by customer A5E01163691
		Kit, Stainless steel cable extension, 15 m, adjustable by customer A5E01163693
		Kit, Stainless steel cable extension, 20 m, adjustable by customer A5E01163695
Operating Instructions All literature is available to download for free, in a range of languages, at http://www.siemens.com/processinstrumentation/documentation		
Accessories	Article No.	
Electronic transmitter kit (includes transmitter and driver)	7ML1830-1KN	LC300 Cable Extensions, 316 stainless steel with PFA coating
SITRANS RD100, loop powered display - see Chapter 7	7ML5741-.....	Kit, PFA cable extension, 1 m A5E01163709
SITRANS RD150, remote digital display for 4 ... 20 mA and HART devices - see Chapter 7	7ML5742-.....	Kit, PFA cable extension, 3 m A5E01163710
SITRANS RD200, universal input display with Modbus conversion - see Chapter 7	7ML5740-.....	Kit, PFA cable extension, 5 m A5E01163711
SITRANS RD300, dual line display with totalizer and linearization curve and Modbus conversion - see Chapter 7	7ML5744-.....	Kit, PFA cable extension, 10 m A5E01163712
For applicable back up point level switch - see point level measurement section		Kit, PFA cable extension, 15 m A5E01163713
		Kit, PFA cable extension, 20 m A5E01163714
¹⁾ Available only with Approvals options A and B.		LC300 Mounting Eye
		Spare mounting eye (LC300 PFA versions only) A5E01163717
		LC300 Weight Kit, 316L stainless steel
		Kit, Spare stainless steel weight. To be used in any cable version of CLS300, or stainless steel cable version of LC300 A5E01163727

Customers interested in a custom designed device should
consult a local sales person. For more information, please visit
http://www.automation.siemens.com/aspa_app.

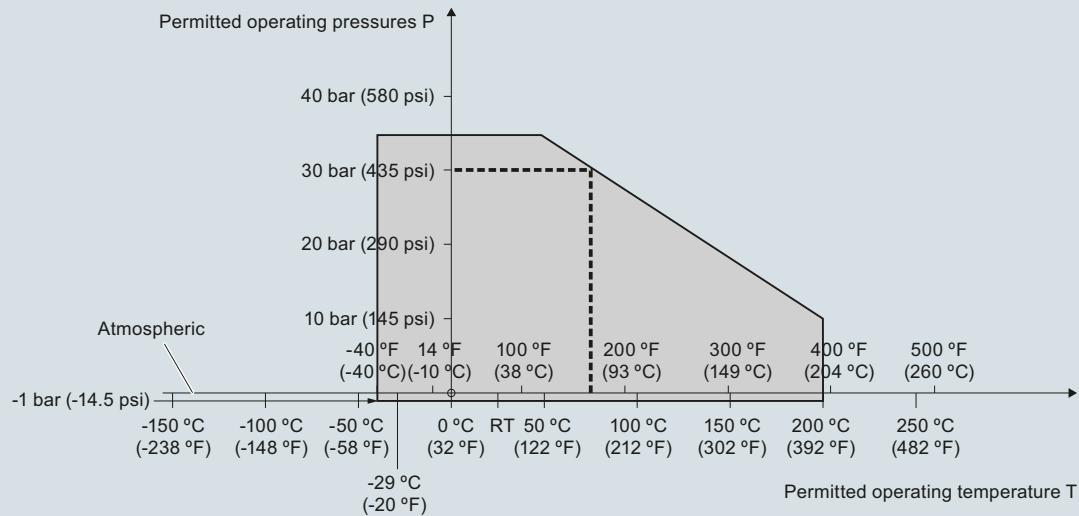
Level measurement

Continuous level measurement
Capacitance transmitters

SITRANS LC300

Characteristic curves

Pressure/temperature curve
LC300 standard, extended rod and cable probes
Threaded process connections
(7ML5670, 7ML5671, 7ML5672 and 7ML5673)

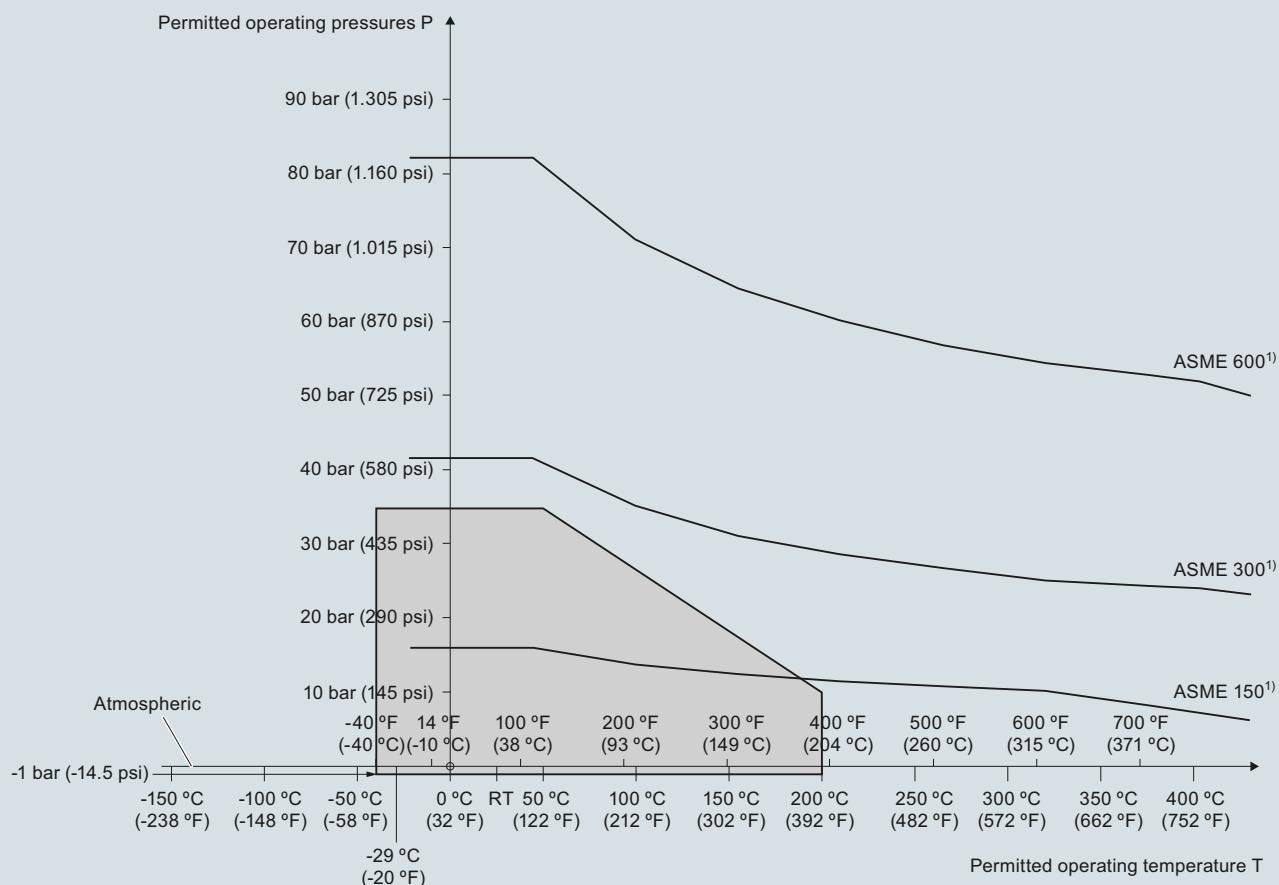


---- Example:
Permitted operating pressure = 30 bar (435 psi) at 75 °C

SITRANS LC300 process pressure/temperature derating curves (7ML5670, 7ML5671, 7ML5672, and 7ML5673))

Characteristic curves (continued)

Pressure/temperature curve
LC300 standard, extended rod and cable probes
ASME flanged process connections
 (7ML5670, 7ML5671, 7ML5672 and 7ML5673)



¹⁾ The curve denotes the minimum allowable flange class for the shaded area below.

SITRANS LC300 process pressure/temperature derating curves (7ML5670, 7ML5671, 7ML5672, and 7ML5673)

Level measurement

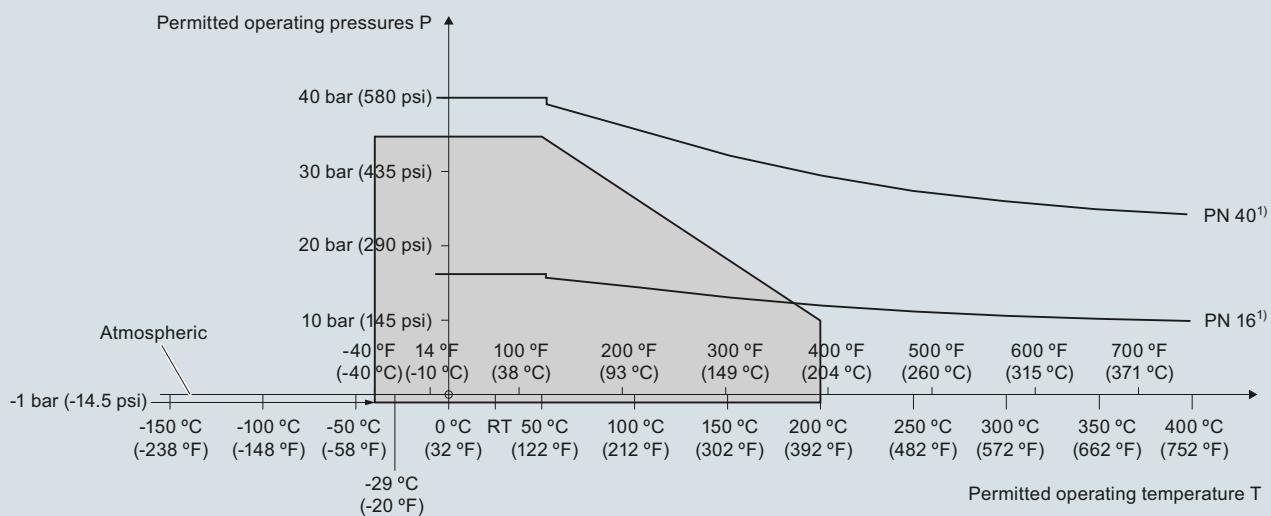
Continuous level measurement
Capacitance transmitters

SITRANS LC300

Characteristic curves (continued)

Pressure/temperature curve

LC300 standard, extended rod and cable probes
EN flanged process connections
(7ML5670, 7ML5671, 7ML5672 and 7ML5673)

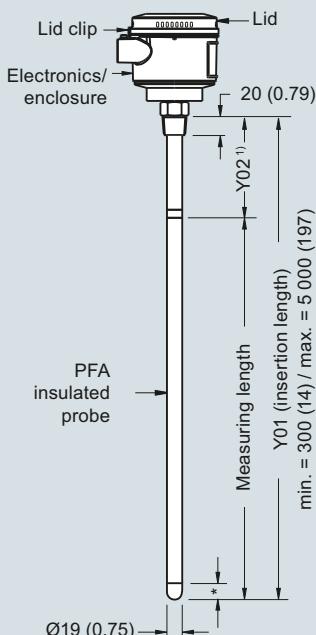


¹⁾ The curve denotes the minimum allowable flange class for the shaded area below.

SITRANS LC300 process pressure/temperature derating curves (7ML5670, 7ML5671, 7ML5672, and 7ML5673)

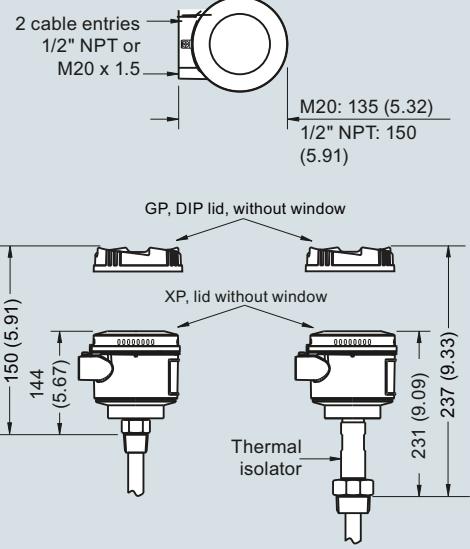
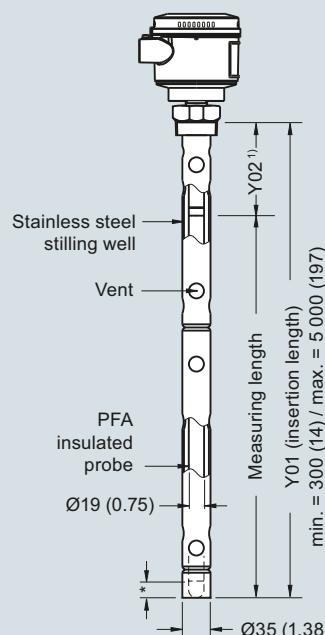
Dimensional drawings

Threaded (7ML5670)



* = 30 (1.18) Inactive tip

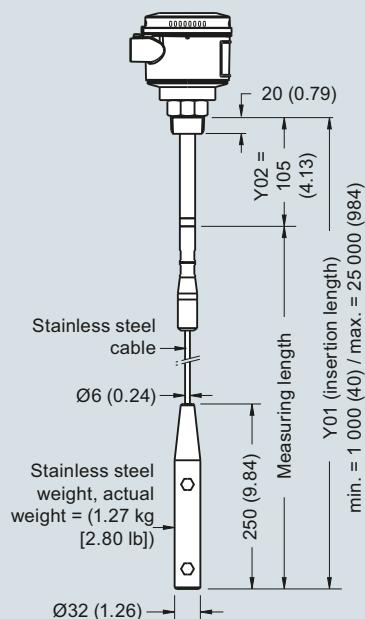
Threaded (7ML5671)



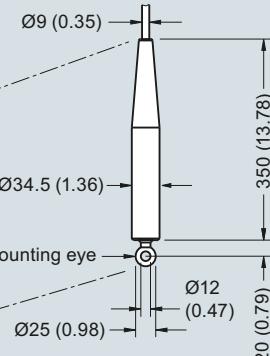
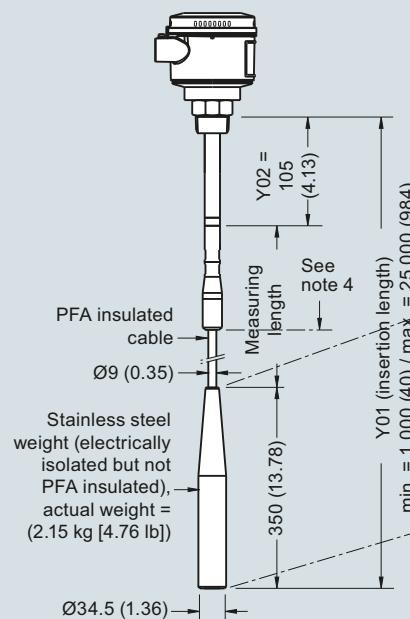
Note:

- 1) Rod version, threaded Y02 (including process connection): shield length = 120 (4.7).
- 2) For non-conductive applications only. Non-insulated cable can be shortened on site. Weight is included in measuring length.
- 3) For liquid and solid applications. Insulated cable cannot be shortened. Weight is **not** included in measuring length.
- 4) For conductive materials, the measuring length includes the exposed PFA insulated cable only. Any fluid contact with the upper rod assembly will result in a short circuit and incorrect readings.

Cable version, non-insulated²⁾
 Threaded (7ML5672)



Cable version, insulated³⁾
 Threaded (7ML5673)



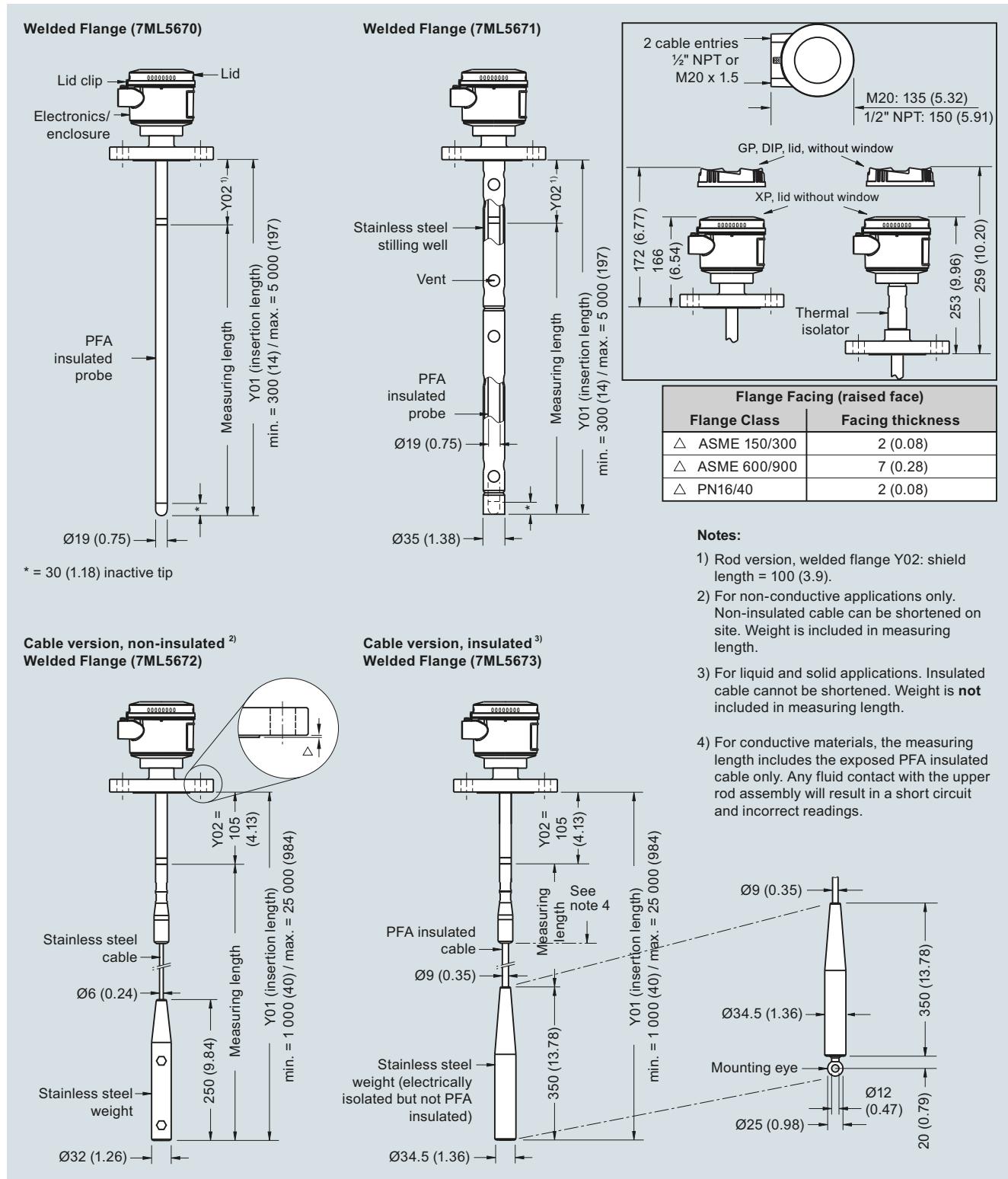
SITRANS LC300 threaded process connections, dimensions in mm (inch)

Level measurement

Continuous level measurement
Capacitance transmitters

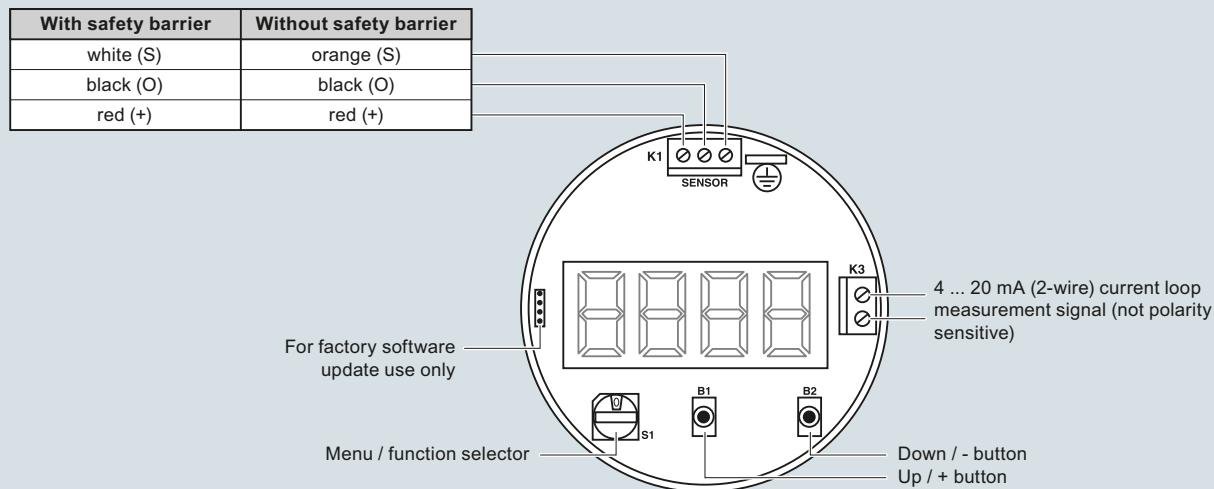
SITRANS LC300

Dimensional drawings (continued)



SITRANS LC300 flanged process connections, dimensions in mm (inch)

Circuit diagrams



SITRANS LC300 connections