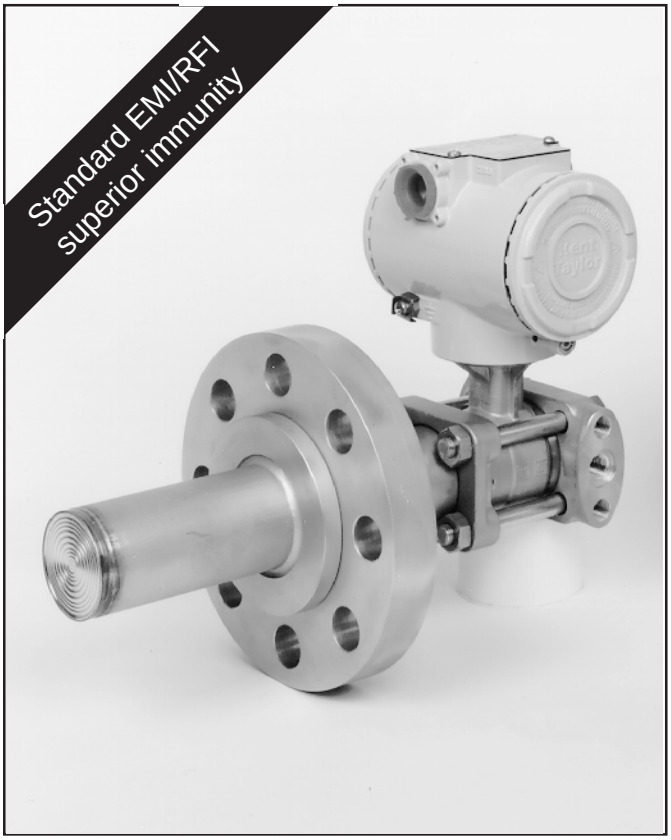
600T Series Smart Transmitters
Model 621L/N Liquid Level

Span limits: 5.34 inH_2O to 87 psid
1.34 kPa to 600 kPa
13.4 mbar to 6 bar
Static pressure : up to mounting flange rating

- **3-Year Warranty**
- **Base accuracy : ± 0.10%**
- **Digital sensor technology**
  - ensures high performance at all process conditions
- **One of a complete family of transmitters**
  - enables plant wide standardization
- **Unique on-line compensation for temperature and static pressure effects**
- **Modular design**
  - allows on-site service
- **Digital communications HART® 5**
  - allows use of standard and Universal HART configurators
- **Upgradeable to fieldbus platform**
  - protects investment if future enhancement required



600T Series transmitter
A complete family of process transmitters providing high performance in real operating conditions

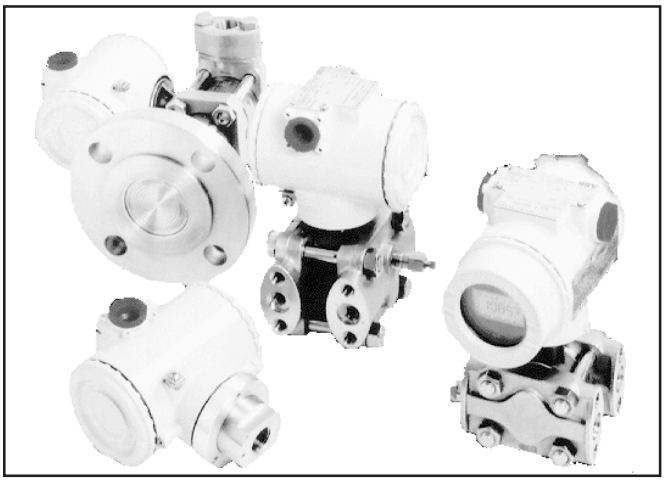
ABB Instrumentation

Accurate, Stable and Reproducible Measurements

The 600T Series features a unique digital sensing system that provides extremely high resolution of differential pressure measurement and exceptional long-term stability.

Advanced sensor technology coupled with microcontroller based electronics virtually eliminate static pressure and ambient temperature errors.

The 600T Series is manufactured in a state-of-the-art ISO 9000 certified factory to ensure a quality product that provides unequalled overall performance.



Digital Sensing Provides Better Performance

At the heart of the 600T Series is a unique sensing and measuring system which converts differential pressure, static pressure and ambient temperature measurements directly into a proprietary Standardized Digital Signal (SDS) output for use by the electronics module in the transmitter housing. It accomplishes this by using a dual inductive sensing element, a precise temperature sensor and a multi-mode oscillator.

The multi-mode oscillator is an Application-Specific Integrated Circuit (ASIC) that generates the SDS based on sequential switching of the dual inductance and the temperature measurement.

This all-digital design eliminates the analog to digital converter and the errors and drift associated with it and provides precise, stable and reproducible measurements.

Dual ASIC's Increases Processing Power

The electronics module also incorporates ASIC and surface mount technology. This ASIC accepts the SDS input from the sensor module and interfaces the microcontroller which performs precise primary variable linearization, compensating for the combined effects of sensor non linearity, static pressure and temperature.

Static Pressure and Transmitter Temperature Effects are Virtually Eliminated

Part of the manufacturing process includes sensor characterization: static pressure and temperature response data is taken over the entire operating range, and stored in the non-volatile memory. This data defines how the sensor will behave, in an application, when exposed to these effects. The primary sensor is instrumented with static pressure and temperature sensors. During operation on-line environmental measurements are taken. The microcontroller compares this data to the characterization data. From this comparison, the actual transmitter output is corrected for the effects of static pressure and temperature variation.

Advanced Electronics Ensures Reliability

The microcontroller-based electronics is designed to exceed sixty years Mean Time Between Failure (MTBF).

Turndown Ratios from 0.5 : 1 to 30 : 1

Differential units have a turndown range from 0.5 : 1, where the calibrated span is actually twice the upper range limit of the transmitter (from minus to plus the upper range limit), up to 30 : 1. This reduces the number of transmitters both operationally and in inventory.

NACE Wetted Material

600T Series meets NACE Spec MR0175 latest revision.

Dual Compartment Housing

Electronics housing is immune to Radio Frequency Interference (RFI) also with meters installed, and provides a convenient integral junction box for field wiring connections.

Local Zero and Span Adjustments Standard

The zero and span adjustment are inductively coupled to the electronics so there is no housing penetration. No penetration eliminates the risk of water or process entering the housing through the adjustments which would lead to transmitter failure. There are three ways to disable the adjustments. The first is by activating the transmitter security jumper. The second is by removing the adjustments. The third is through the hand-held Communicator software lock-out sequence which is password protected to allow total transmitter security.

Transmitter Diagnostics

The transmitter continuously performs self-tests. Self-tests include sensor and electronics over range condition, input circuitry and configuration integrity and many others. Transmitter diagnostic status is available during communication interface (i.e. with hand terminal or other HART® host) and also on the local integral digital display (electrical option code "A") for fast verification.

A user selectable loop test output current can be selected to help analyze the other components of the loop.

Enhanced Remote Communications

Transmitters communicate with the P.C. based configuration software, the KHT hand terminal, the HART model 275 Universal Communicator and any host interface supporting the HART® protocol.



The Configuration Package Takes the Work Out of Transmitter Management

Unlike other remote transmitter interfaces, the 600T configuration package consists of two main elements: the configurator software and the hand-held communicator. Designed for the P.C. environment, this package has the capability to:

- assemble a transmitter data base off-line,
- provide both a disk and a printed record ideal for ISO 9000 record keeping requirements,
- download to the transmitter either with a standard modem or via the hand-held communicator.

A two-level password protection is provided for all changes in the transmitter data base.

Configurations stored within the communicator can be read, written and deleted from the management operations of the configurator. Also, file back-ups and or different versions of the data base can be created and maintained using the P.C. based configurator.

Maintenance, replace and reporting operations help to manage transmitters more efficiently and increase process security.

The 600T Series is Field Repairable

Unlike other smart transmitters, the 600T characterization data is stored with the non-volatile memory in the sensor module, not in the electronics microcontroller. This means the electronics module can be field replaced without loss of performance and without having to remove separate correction PROMs or re-calibrate the transmitter.

User Selectable Output Functions

Output characterization allows the following applications:

- Linear : Differential pressure and liquid level measurements
- $x^{3/2}$: Output linear with open channel flow measurement using rectangular/trapezoidal weirs (Hamilton-Smith, Rehbock/Cipolletti)
- $x^{5/2}$: Output linear with open channel flow measurement using V-notch weir (Kindsvater-Shen)
- Free programmable (5th-order polynomial) : Output linear with volumes of liquids contained into spherical tanks or cylindrical horizontal vessel or any curved vessels. Greatly improving both process and level measurement accuracy.
- User selected constant current for loop testing.

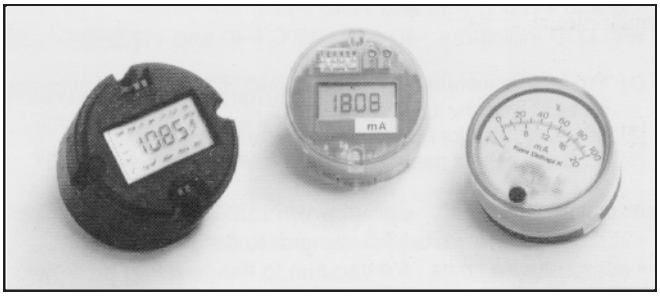
Optional Indicators

The LCD display plugs into the electronics module, reads the digital signal, and shows the digital output in pressure engineering units or percent of analog range values. It also provides diagnostic messages for troubleshooting the transmitter.

The LCD output meter is user-adjustable. It plugs into the transmitter field terminal block and then reads the actual 4 to 20 mA output signal. It can be scaled to read in engineering units.

Both indicators can be installed into one transmitter, if required.

An analog output meter is also available for those applications where the transmitter operates outside the temperature limits of the LCDs, or user preference.



FUNCTIONAL SPECIFICATIONS

Lower and Upper Range limits (LRL and URL)

Sensor code	Model 621N	Model 621L
C	**-160 and +160 inH2O**	**-160 and +160 inH2O**
	-40 and +40 kPa	-40 and +40 kPa
	-400 and +400 mbar	-400 and +400 mbar
D	**-642 and +642 inH2O**	**-401 and +642 inH2O**
	-160 and +160 kPa	-100 and +160 kPa
	-1600 and +1600 mbar	-1000 and +1600 mbar
E	**-87 and +87 psi**	**-14.7 and +87 psi**
	-600 and +600 kPa	-100 and +600 kPa
	-6 and +6 bar	-1 and +6 bar

Turndown ratio (TD) : up to 30 : 1

Span limits

Maximum span = URL
(can be further adjusted up to 2 x URL, within the range limits)
Minimum span = URL/TD

Zero suppression and elevation

Zero and span can be adjusted to any value as long as:
- calibrated span ≥ minimum span
- upper range value (URV = 100%) ≤ Upper Range Limit (URL)
- lower range value (LRV = zero) ≥ Lower Range Limit (LRL)

Temperature limits :

Process (1)
- Silicone oil filling : -40 and +120°C (-40 and +248°F) (2) (1)
- Inert filling : -20 and +80°C (-4 and +176°F) (3)

Ambient
-40 and +85°C (-40 and +185°F)
with LCD indicators : -20 and +80°C (-4 and +176°F)

Storage
-50 and +120°C (-58 and +248°F)
with LCD indicators: -40 and +85°C (-40 and +185°F)

(1) Process temperature above 85°C (185 °F) requires derating the ambient limits by 1.5 : 1 ratio.
(2) 100°C (212°F) for application below atmospheric pressure
(3) 70°C (158°F) for application below atmospheric pressure

Pressure limits
- static pressure limits : full vacuum to flange rating
- overpressure limits : full vacuum to flange rating on either side without damage to the transmitter. Transmitter operates within specifications from 0 abs to flange rating

Proof pressure
- Class 150 mounting flanges : 3.8 MPa, 38 bar, 550 psi
- Class 300 mounting flanges : 10 MPa, 100 bar, 1440 psi
- Class 600 mounting flanges : 20 MPa, 200 bar, 2880 psi

Meets SAMA PMC 27.1

Damping

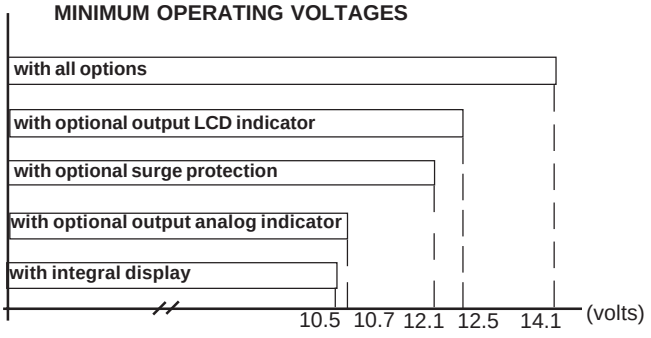
Selectable time constant : 0, 0.25, 0.5, 1, 2, 4, 8 or 16 sec. This is in addition to the sensor time constant of 0.2 sec.

Volumetric displacement

< 0.025 cm^3 (0.0015 in^3) for max span.

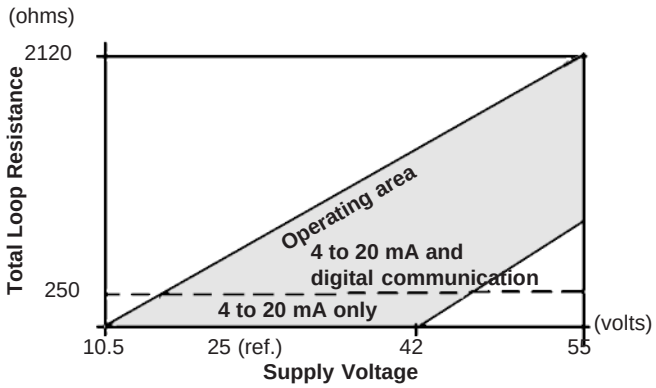
Power supply

The transmitter operates from 10.5 to 42 Vdc with no load and is protected against reverse polarity connection (a load up to 620Ω allows operations up to 55 Vdc).
For CSA approval power supply must not exceed 42Vdc.



Load limitations - total loop resistance **:**

$$R(k\Omega) = \frac{\text{Supply voltage - min. operating voltage (Vdc)}}{21}$$



Optional indicators

Output meter (user adjustable)
- LCD : 3 1/2-digit with 10 mm (3/8 in) high, 7-segment characters. Engineering unit labels are provided. LCD output meter may be calibrated within the range -1999 to + 1999 with a span adjustable between 200 and 3998 units. (Display of decimal point, if required, is switch selectable)
- analog : 36 mm (1.4 in) scale on 90°

Integral display
- LCD: 4-digit with 8 mm. (5/16 in) high, 9-segment alpha-numeric characters.
  User-definable display mode :
  - process variable in engineering units, or
  - percent of range, or
  - process variable in engineering units and percent of range alternating every 2 seconds, or
  - process variable in engineering units and digital output (4 to 20 mA) alternating every 2 seconds.

  Display also indicates diagnostic messages.

Turn on time

Operation within specification in less than 2 sec. with minimum damping.

Optional surge protection
Up to 2.5 kV (5 kA discharge current) of 8 µs rise time/20 µs decay.

Insulation resistance
> 100 MΩ @ 1000 Vdc.

Output signal
Two-wire 4 to 20 mA dc, user-selectable for linear, power of 3/2 or 5/2 or 5th order programmable polynomial output. Digital process variable (%, mA or engineering units) superimposed on 4 to 20 mA signal. HART® communication protocol.

Output current limit
Overload condition
- Lower limit : approx. 3.8 mA dc
- Upper limit : approx. 24 mA dc

Transmitter failure mode
The output signal can be user-selected to a value of 3.9 or 21 mA on gross transmitter failure condition, detected by self-diagnostics.

PERFORMANCE SPECIFICATIONS

Reference conditions and zero based range for transmitter with flush isolating diaphragms in AISI 316 L ss or Hastelloy and silicone oil fill and digital trim values equal to 4-20 mA span end points, in linear mode. Unless otherwise specified, errors are quoted as % of span.

Accuracy

Accuracy rating (*) :
- ± 0.10% for TD from 1:1 to 10:1
- $\pm (0.01 \times \frac{URL}{Span})\%$ for TD from 10:1 to 30:1

(*) including combined effects of terminal based linearity, hysteresis and repeatability.

Optional indicators accuracy
- integral display (microprocessor driven) : no error
- analog output meter : ± 2% full scale deflection
- LCD output meter : ± 0.1% of calibrated span ± 1 unit

Operating influences

Ambient temperature per 30 K (54°F) change between the limits of - 40°C and + 85°C (-40 to +185°F)
- Zero error : ± 0.35% x TD (Flush Diaphragm)
  ± 0.5% x TD (Extended Diaphragm)
- Span error : ± 0.20% of reading

Optional LCD output meter ambient temperature
per 1 K (1.8°F) change between the limits of -20 and +80°C (-4 and + 176°F)
Total effect : ± (0.0002 x span units + 0.1) of reading.

Static pressure per 2 MPa, 20 bar or 290 psi
- zero error (can be calibrated out at line pressure) :
  - ±(0.08 x TD)% with flush diaphragm
- span error:
  - ± 0.10% of reading with flush diaphragm for line pressures from 0 to flange rating

Supply voltage
Within voltage/load specified limits the total effect is less than 0.005% of URL per volt.

Load
Within load/voltage specified limits the total effect is negligible.

EMI/RFI
Total effect : less than 0.10% of span from 20 to 1000 MHz and for field strengths up to 30 V/m when tested with shielded conduit and grounding, with or without meter. Meets IEC 801

Vibration
Total effect: ± 0.05% of URL from 1 to 2000 Hz and acceleration up to 20 m/s^2 (2g) in any axis.

Common mode interference
No effect from 100 V rms @ 50 Hz, or 50 Vdc.

Series mode interference
No effect from 1 V rms @ 50 Hz.

Mounting position
Rotations in plane of diaphragm have no effect. A tilt to 90° from vertical causes a zero shifts up to 0.5 kPa, 5 mbar or 2 inH_2O, which can be corrected with the zero adjustment**.** No span effect.

Stability
± 0.05% of URL over a twelve-month period

PHYSICAL SPECIFICATIONS

Materials

Process isolating diaphragms and high pressure side gasket seat (*)
AISI 316 L ss, Hastelloy™ C276; Tantalum

High pressure side mounting flange
Carbon steel; AISI 316 ss

Low pressure side flange, adapter, plug and drain/vent valve (*)
AISI 316 L ss; Hastelloy™ C;
AISI 316 L ss with Hastelloy™ C valve to NACE MR0175, Class II.

Sensor fill fluid
Silicone oil (DC200) or inert fill.

Gaskets (*)
Viton™, PTFE.

Sensor housing : AISI 316 L ss

Bolts and nuts
- Zinc plated carbon steel bolts class 8.8 per UNI 5737 (ISO 4014) and nuts class 6.S per UNI 3740/4 (ISO 898/2).
- Zinc plated alloy steel bolts per ASTM-A-193-77a grade B7M and nuts per ASTM A194/A 194 M-90 grade 2HM, in compliance with NACE MR0175 Class II.
- AISI 316 ss bolts Class A4-80 and nuts Class A4-70 per UNI 7323 (ISO 3506).

Electronic housing and covers
Low-copper content aluminium alloy with baked epoxy finish.

Covers O-ring: Buna N.

Local zero and span adjustments:
Glass filled polycarbonate plastic (removable)

Tagging
AISI 316 ss data plate attached to the electronics housing.

Calibration
- Standard: at maximum span, zero based range, ambient temperature and pressure
- Optional: at specified range and ambient conditions; or at operating temperature.

Optional extras
Output indicator:
plug-in rotatable type, LCD or analog.
Standard LCD output meter scale is 0 to 100% linear; special linear scale to specified range and engineering unit is available.Standard analog output meter scale is 0 to 100% linear.

Supplemental customer tag
AISI 316 ss tag fastened to the transmitter with stainless steel wire for customer's tag data up to a maximum of 56 characters and spaces on two lines for tag number and tag name, and up to a maximum of 28 characters and spaces for calibration details.

Surge protection

Environmental protection
Wet and dust-laden atmospheres
The transmitter is dust and sand tight and protected against immersion effects as defined by IEC 529 (1989) to IP 67 (IP 68 on request) or by NEMA to 4X.

Hazardous atmospheres
With or without output meter/integral display
INTRINSIC SAFETY:
- BASEEFA Approval;
  Conformity Certificate no. Ex 94C2189
  EEx ia IIC T5 (Tamb 40°C)/T4 (Tamb 85°C)

TYPE N PROTECTION:
- BS / BASEEFA Approval;
  Assurance certificate no. Ex 94Y4190
  Ex N IIC T5 (Tamb 40°C)/ T4 (Tamb 85°C)

CANADIAN STANDARDS ASSOCIATION and FACTORY MUTUAL :
- Explosionproof: Class I, Div. 1, Groups A, B, C, D
- Dust ignitionproof : Class II, Div. 1, Groups E, F, G
- Suitable for : Class II, Div. 2, Groups F, G; Class III, Div. 1, 2
- Nonincendive: Class I, Div. 2, Groups A, B, C, D
- Intrinsically safe: Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G.

Process connections
Low pressure side
- on flange : 1/4 NPT on process axis
- on adapter : 1/2 NPT on process axis

High pressure side (**) :
3 in ANSI 150 to 600 RF;

Electrical connections
Two 1/2 NPT conduit entry, direct on housing.

Terminal block
Two terminals for signal wiring up to 2.5 mm^2 (14 AWG) and three connection points for test and communication purposes.

Grounding
Internal and external 6 mm^2 (10 AWG) ground termination points are provided.

Mounting position
Transmitter can be mounted in any position.
Electronics housing may be rotated to any position. A positive stop prevents over travel.

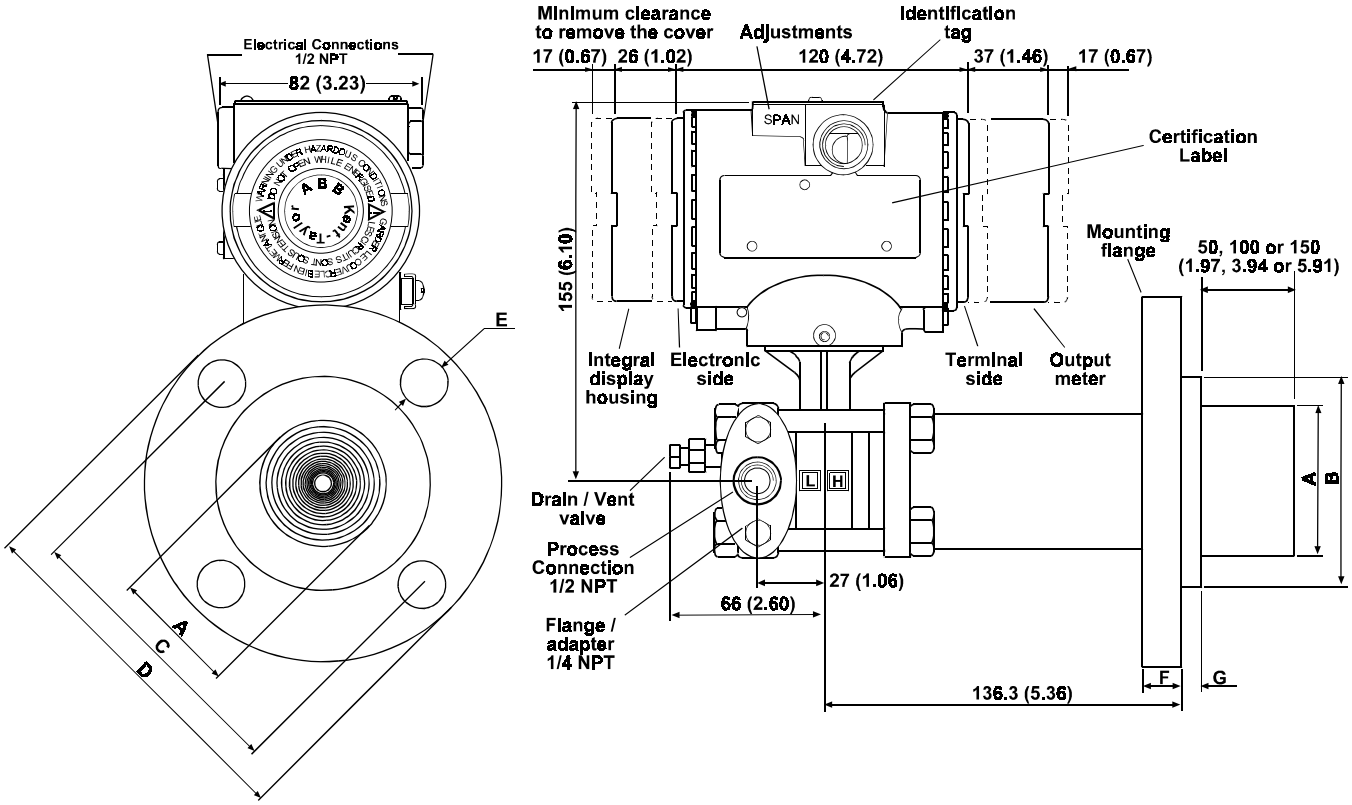
Mass (without options)
9 to 17 kg approx (20 to 37 lb) according to specified code options. Add 1 kg (2.2 lb) for packing; 1.5 kg (3.3 lb) for packing of extended version.

Packing
Carton 35 x 33 x 35 cm approx. (14 x 13 x 14 in);
51 x 33 x 35 cm approx (20 x 13 x 14 in) for packing of extended version.

(*) Wetted parts of the transmitter.
(**) Bolts and nuts, gasket and mating flange supplied by Customer

• Hastelloy is a Cabot Corporation trademark
• Viton is a Dupont de Nemour trademark

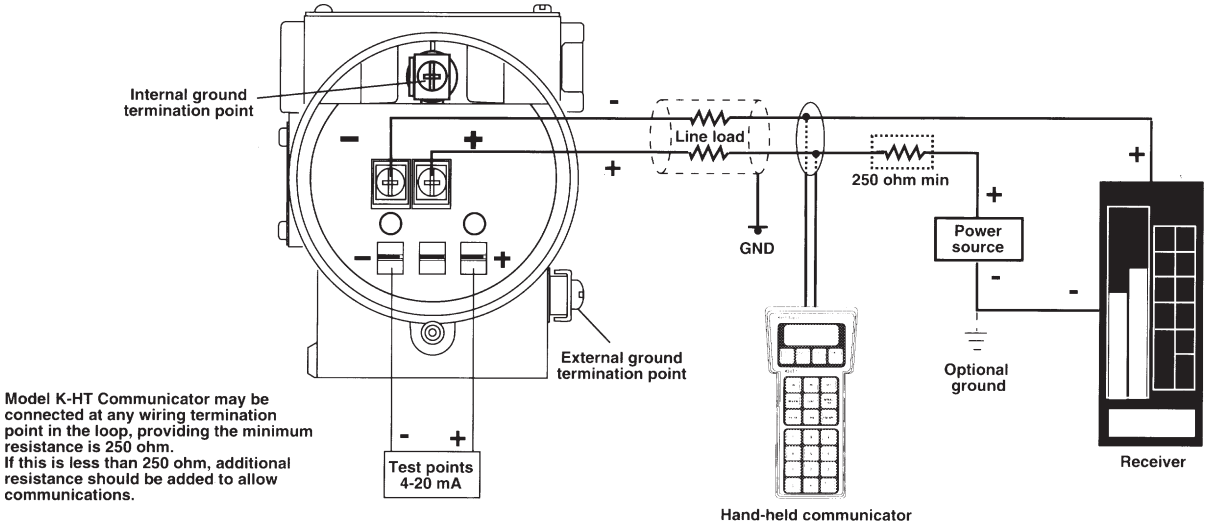
MOUNTING DIMENSIONS
(not for construction unless certified)



RATING	SIZE	A		B	C	D	E	No.of holes	F	G
		flush	extended							
ANSI 150 R.F.	3"	89 (3.50)	75 (2.96)	127 (5.0)	152.4 (6.0)	190.5 (7.5)	19 (0.75)	4	23.8 (0.94)	12.1 (0.48)
ANSI 300 R.F.	3"	89 (3.50)	75 (2.96)	127 (5.0)	168.2 (6.62)	209.5 (8.25)	22.3 (0.88)	8	28.5 (1.12)	12.1 (0.48)
ANSI 600 R.F.	3"	89 (3.50)	-	127 (5.0)	168.2 (6.62)	209.5 (8.25)	22.3 (0.88)	8	31.8 (1.25)	9.5 (0.37)
ANSI 150 R.F. (Note)	4”	89 (3.50)	94 (3.70)	157.2 (6.2)	190.5 (7.5)	228.6 (9.0)	20 (0.79)	8	24 (0.94)	9.5 (0.37)

NOTE: Uses a 4 inch diaphragm. If replacing a 553T, 554T, T5L, or T5M use 621S with S6E.

ELECTRICAL CONNECTIONS



ORDERING INFORMATION

621L/N Liquid Level Transmitters

Select one character or set of characters from each category and specify complete catalog number per sample below.

Code No. **Description**

BASE INSTRUMENT - 1st thru 4th characters

621L	Smart Series Liquid Level Transmitters of Open Tank
621N	Smart Series Liquid Level Transmitters of Closed Tank

Transmitter Span Limits - 5th Character

C	5.34 and 160 in H2O	1.34 and 40 kPa	13.4 and 400 mbar
D	21.4 and 642 in H2O	5.34 and 160 kPa	53.4 and 1600 mbar
E	2.9 and 87 psi	20 and 60 kPa	0.2 and 6 bar

Mounting Flange - 6th Character

	Material	Rating	Size
2	Carbon Steel	ANSI 150 R.F.	3 in
4	Carbon Steel	ANSI 300 R.F.	3 in
6	Carbon Steel	ANSI 600 R.F. (flush only)	3 in
K	AISI 316 L ss	ANSI 150 R.F. MWP 275	3 in
M	AISI 316 L ss	ANSI 300 R.F. MWP 720	3 in
P	AISI 316 L ss	ANSI 600 R.F. (flush only) MWP 1440	3 in
0	Carbon Steel	ANSI 150 R.F.	4 in (Note)
G	AISI 316 L ss	ANSI 150 R.F.	4 in (Note)

NOTE: Uses a 4 inch diaphragm. If replacing a 553T, 554T, T5L, or T5M use 621S with S6E.

Diaphragm 7th Character

	Diaphragm Material*	Extension Material	Extension Length
1	AISI 316 L ss	None	Flush
2	AISI 316 L ss	AISI 316 L ss	2 in
4	AISI 316 L ss	AISI 316 L ss	4 in
6	AISI 316 L ss	AISI 316 L ss	6 in
A	Hastelloy C	None	Flush
B	Hastelloy C	Hastelloy C	2 in
C	Hastelloy C	Hastelloy C	4 in
D	Hastelloy C	Hastelloy C	6 in
T	Tantalum	None	Flush

Fill Material on Mounting Flange Side (High Side) (low side is silicone oil only) - 8th Character

2	Silicone Oil
3	Inert Fluid

Low Side Process Flange / Adapter / Drain/Vent Valve* - 9th Character

621L	621N	Material	Connection	
	1	AISI 316 L ss	1/2" NPT-f through adapter	Valve on flange
	4	AISI 316 L ss	1/4" NPT-f direct	Valve on flange
	D	Hastelloy C	1/2" NPT-f through adapter	Valve on flange
	G	Hastelloy C	1/4" NPT-f direct	Valve on flange
	Z	Plated Carbon Steel**	1/2" NPT-f through adapter	Valve on flange
	B	Plated Carbon Steel**	1/4" NPT-f direct	Valve on flange
0		AISI 316 L ss (blank flange to be used for 621L only)		
	F	Plated Carbon Steel	1/2" NPT-f through adapter	Valve on process axis
	H	Plated Carbon Steel	1/4" NPT-f direct	Valve on process axis
	J	AISI 316 L ss	1/2" NPT-f through adapter	Valve on process axis
	L	AISI 316 L ss	1/4" NPT-f direct	Valve on process axis

ORDERING INFORMATION (Cont'd)

Code No. **Description**

Flange Bolts and Gaskets - 10th Character

621L	621N	Bolt Material	Gasket Material*
	1	Carbon Steel	Viton
	3	Carbon Steel	PTFE
D		Carbon Steel	None (to be used for open tank application)
	4	316 Stainless Steel	Viton
	6	316 Stainless Steel	PTFE
E		316 Stainless Steel	None (to be used for open tank application)
	7	Zinc Plated Alloy Steel ASTM-A-193 B7M	Viton
	A	Zinc Plated Alloy Steel ASTM-A-193 B7M	PTFE
F		Zinc Plated Alloy Steel	None (to be used for open tank application)

Electrical Safety Approval - 11th Character (see **Hazardous atmospheres** specifications for details)

1	General Purpose
4	Intrinsic Safety to BASEEFA approval EEx ia II C T5/T4
5	Type "N" to BS 6941:1988 BASEEFA approval Ex N II T5/T4
8	FM & CSA Explosion Proof (Div 1), Intrinsically Safe (Div 1), Non-Incendive (Div 2)

Electrical Connection - 12th Character

1	1/2" NPT

Local Meter Option - 13th Character

1	None
3	Digital LCD output indicator linear 0 - 100%, user scaleable
5	Digital LCD output indicator linear scale (specify range and units)
7	Analog output indicator linear 0 - 100% scale
A	Digital LCD integral display
C	Digital LCD integral display and Digital LCD output indicator linear 4 to 20mA
E	Digital LCD integral display and Analog output indicator linear 0 - 100% scale

Surge Protection - 14th Character

1	None
2	Yes (not available with Electrical Codes 2, 4 or 5)

Configuration, Ps Units, T Units - 15th Character

	Configuration and Units	**Calibration Condition**	**Calibration Certificate**
1	Std. Config., kPa, deg C	Reference	None
2	Std. Config., kPa, deg C	Reference	Yes, 3 Copies
4	Std. Config., in H2O/psi, deg F	Reference	None
5	Std. Config., in H2O/psi, deg F	Reference	Yes, 3 Copies

* Process wetted-parts

** We reserve the right to upgrade the flange material from plated carbon steel to 316 SST at no additional cost.

_ underlined code = Compliance to NACE class II bolting, according to specification MR0175, latest revision (7th characters 1, 2, 4, 6 621L only))

Boxed lines indicate most commonly ordered options.

CONFIGURATION

Standard configuration

Transmitters are factory calibrated to customer's specified range. Calibrated range and tag number are stamped on the tag plate. If a calibration range and tag data are not specified, the transmitter will be supplied with the plate left blank and configured as follows:

- Engineering Unit: Specify code option
- 4 mA: Zero
- 20 mA: Upper Range Limit (URL)
- Output Linear
- Damping: 1 second
- Transmitter failure mode: Upscale
- Software tag characters: Blank
- Optional LCD output indicator: 0 to 100.0% linear

Any or all the above configurable parameters, including Lower range-value and Upper range-value which must be the same unit of measure, can be easily changed using the K-HT handheld communicator.

The transmitter database is customized with specified flange type and material, 0-ring and drain/vent materials and meter code option.

Custom configuration (option)

The following data may be specified in addition to the standard configuration parameters:

- Descriptor 16 alphanumeric characters
- Message: 32 alphanumeric characters
- Date: Day, month, year
- Damping: Seconds

Refer to configuration/certified drawing for available units of measure.

The Company's policy is one of continuous product improvement and the right is reserved to modify specifications contained herein without notice.

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