



2600T Series Pressure Transmitter Model 264HS Gage Pressure Transmitter

Features Include

- ◆ **Base accuracy : $\pm 0.075\%$**
- ◆ **Span limits**
– 0.65 to 60000kPa; 2.6inH₂O to 8700psi
- ◆ **Reliable sensing system coupled with very latest digital technologies**
– provides large turn down ratio up to 100:1
- ◆ **Comprehensive sensor choice**
– optimize in-use total performance and stability
- ◆ **5-year stability**
- ◆ **Flexible configuration facilities**
– provided locally via local keys combined with LCD indicator or via hand held terminal or PC configuration platform
- ◆ **Multiple protocol availability**
– provides integration with HART®, PROFIBUS PA and FOUNDATION Fieldbus platforms offering interchangeability and transmitter upgrade capabilities
- ◆ **Full compliance with PED Category III**

The **ABB 264HS** Gage Pressure Transmitter offers a wide selection of pressure ranges from 2.6 in H₂O to 8700 psi. The diaphragm material is offered in Hastelloy C276 with wetted parts in 316 stainless steel or Hastelloy. Several choices of fill fluids and process connections are offered and there are all the 2600T options such as your

choice of HART / 4-20 mA, PROFIBUS PA, and FOUNDATION Fieldbus. There are also optional output meters and a new integral digital LCD display which allows configuration ability. The 264HS has a 5 year stability warranty which guarantees long term performance.



**ABB 2600T Series
Engineered solutions
for all applications**



Condensed Specifications

Range and span limits

Sensor Code	Upper Range Limit (URL)	Lower Range Limit (LRL)	Minimum span	
			264HS gauge	264NS absolute
G	65kPa 650mbar 260inH ₂ O	0.07kPa abs 0.7mbar abs 0.5mmHg	0.65kPa 6.5mbar 2.6inH ₂ O	1.1kPa 11mbar 8mmHg
H	160kPa 1600mbar 642inH ₂ O	0.07kPa abs 0.7mbar abs 0.5mmHg	1.6kPa 16mbar 6.4inH ₂ O	2.67kPa 26.7mbar 20mmHg
M	600kPa 6bar 87psi	0.07kPa abs 0.7mbar abs 0.5mmHg	6kPa 0.06bar 0.87psi	10kPa 0.1bar 1.45psi
P	2400kPa 24bar 348psi	0.07kPa abs 0.7mbar abs 0.5mmHg	24kPa 0.24bar 3.5psi	40kPa 0.4bar 5.8psi
Q	8000kPa 80bar 1160psi	0.07kPa abs 0.7mbar abs 0.5mmHg	80kPa 0.8bar 11.6psi	134kPa 1.34bar 19.4psi
S	16000kPa 160bar 2320psi	0.07kPa abs 0.7mbar abs 0.5mmHg	160kPa 1.6bar 23.2psi	267kPa 2.67bar 38.7psi
V	60000kPa 600bar 8700psi	0.07kPa abs 0.7mbar abs 0.5mmHg	600kPa 6bar 87psi	

Span limits

Maximum span = URL

IT IS RECOMMENDED TO SELECT THE TRANSMITTER SENSOR CODE PROVIDING THE TURNDOWN VALUE AS LOWEST AS POSSIBLE TO OPTIMIZE PERFORMANCE CHARACTERISTICS.

Zero suppression and elevation

Zero and span can be adjusted to any value within the range limits detailed in the table as long as:

- calibrated span ≥ minimum span

Damping

Selectable time constant : 0, 0.25, 0.5, 1, 2, 4, 8 or 16s.

This is in addition to sensor response time

Turn on time

Operation within specification in less than 1s with minimum damping.

Insulation resistance

> 100M Ω at 1000VDC (terminals to earth)

Operative limits

Temperature limits °C (°F) :

Ambient (is the operating temperature)

Silicone oil filling: –40°C and +85°C (–40°F and +185°F)

Inert filling and white oil: –20°C and +85°C (–4°F and +185°F)

Lower limit for LCD indicators and Viton gasket: –20°C (–4°F)

Lower limit for perfluoroelastomer gasket: –15°C (+5°F)

Upper limit for CoMeter and ProMeter : +70°C (+158°F)

Upper limit for perfluoroelastomer gasket: +80°C (+176°F)

Note : For Hazardous Atmosphere applications see the temperature range specified on the certificate/approval relevant to the aimed type of protection

Process

Lower limit

–50°C (–58°F); –20°C (–4°F) for Viton gasket.

–15°C (+5°F) for perfluoroelastomer gasket

Upper limit

– Silicone oil, inert fluid and white oil: 121°C (250°F)

– Perfluoroelastomer gasket: +80°C (+176°F)

Storage

Lower limit: –50°C (–58°F); –40°C (–40°F) for LCD indicators

Upper limit: +85°C (+185°F)

Optional indicators

Output meter

CoMeter and Prometer :

5-digit (±99999 counts) programmable with 7.6mm.

high (3in), 7-segment numeric characters plus sign and digital point for digital indication of output value in percentage, current or engineer unit;

10-segment bargraph display (10% per segment) for analog indication of output in percentage;

7-digit LCD with 6mm. high (2.3in), 14-segment alphanumeric characters, for engineer units and configuration display

Analog : 36mm (1.4in) scale on 90°.

Integral display

LCD, 15 lines x 56 column dot matrix providing 2 lines indication as

– top: 5-digit (numeric) plus sign or 7-digit alphanumeric

– bottom: 7-digit alphanumeric

and additional 50-segment bargraph for indication of analog output in percentage.

User-definable matrix display mode with HART communication:

– process variable in pressure unit or

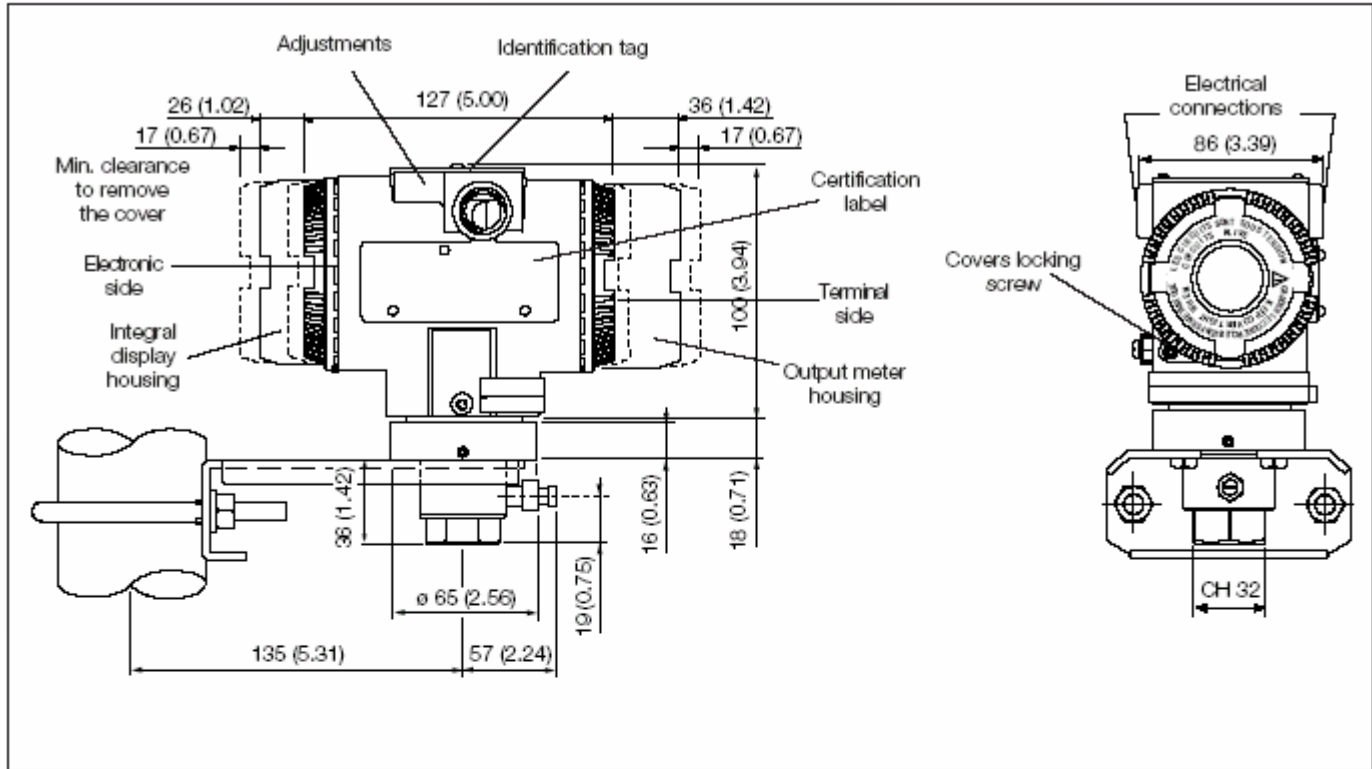
– output signal as percentage, current or engineering units

Display also indicates in/out transfer function, static pressure, sensor temperature and diagnostic messages and provides configuration facilities.

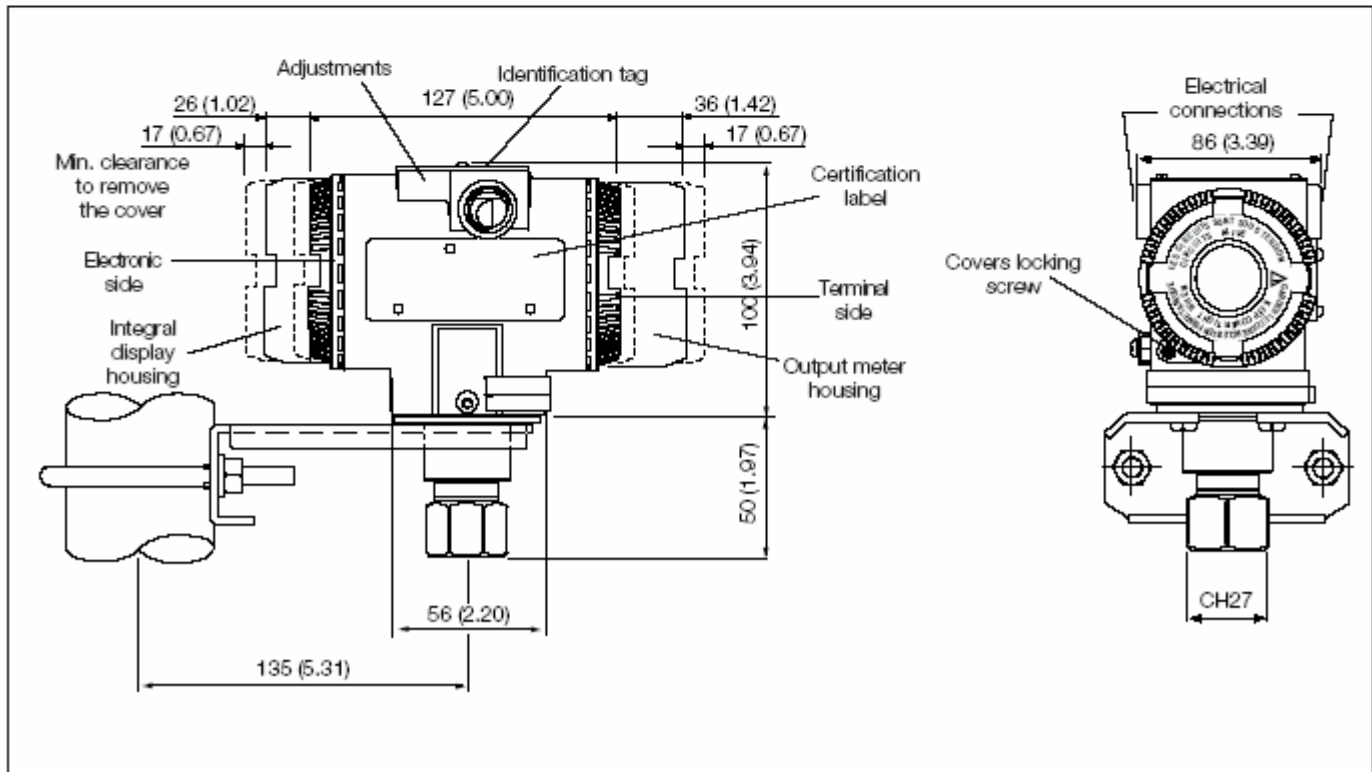


MOUNTING DIMENSIONS (not for construction unless certified) – dimensions in mm (in)

Transmitter with barrel housing on bracket for 60mm (2in) pipe mounting



1/2in – 14 NPT female connection for sensors G, H, M, P, Q, S



1/2in – 14 NPT female connection for sensor V (NOT FOR 264NS)

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BASIC ORDERING INFORMATION model 264HS Gauge Pressure Transmitter

Select one character or set of characters from each category and specify complete catalog number.
Refer to additional ordering information code and specify one or more codes for each transmitter if additional options are required.

BASE MODEL – 1 st to 5 th characters			2	6	4	H	S	X	X	X	X	X
Gauge Pressure Transmitter – BASE ACCURACY 0.075%												
SENSOR - Span limits – 6th character												
0.65 and 65kPa	6.5 and 650mbar	2.6 and 260inHzO						G				
1.6 and 160kPa	16 and 1600mbar	6.4 and 642inHzO						H				
6 and 600kPa	0.06 and 6bar	0.87 and 87psi						M				
24 and 2400kPa	0.24 and 24bar	3.5 and 348psi						P				
80 and 8000kPa	0.8 and 80bar	11.6 and 1160psi						Q				
160 and 16000kPa	1.6 and 160bar	23.2 and 2320psi						S				
600 and 60000 kPa	6 and 600bar	87 and 8700 psi						V				
Diaphragm material / Fill fluid (wetted parts) – 7th character												
AISI 316 L ss	Silicone oil	(Note 2)								S		
Hastelloy C276™ (on AISI seat)	Silicone oil	(Note 2)						NACE		H		
Hastelloy C276™	Silicone oil							NACE		K		
Monel 400™	Silicone oil	(Note 2)						NACE		M		
Tantalum	Silicone oil	(Note 2)						NACE		T		
AISI 316 L ss	Inert fluid - Galden	(Notes 1, 2)								A		
Hastelloy C276™ (on AISI seat)	Inert fluid - Galden	(Notes 1, 2)						NACE		B		
Hastelloy C276™	Inert fluid - Galden (Carbon fluoride for sensor V)	(Note 1)						NACE		F		
Monel 400™	Inert fluid - Galden	(Notes 1, 2)						NACE		C		
Tantalum	Inert fluid - Galden	(Notes 1, 2)						NACE		D		
AISI 316 L ss	Inert fluid - Halocarbon	(Notes 1, 2)								L		
Hastelloy C276™ (on AISI seat)	Inert fluid - Halocarbon	(Notes 1, 2)						NACE		Q		
Hastelloy C276™	Inert fluid - Halocarbon	(Notes 1, 2)						NACE		P		
Monel 400™	Inert fluid - Halocarbon	(Notes 1, 2)						NACE		4		
Tantalum	Inert fluid - Halocarbon	(Notes 1, 2)						NACE		5		
Process connection material (wetted parts) – 8th character												
AISI 316 L ss	1/2in NPT female	(Note 3)						NACE		B		
AISI 316 L ss	1/2in NPT male	(Note 3)						NACE		T		
AISI 316 L ss	DIN EN837-1 G 1/2in B	(Note 3)						NACE		P		
AISI 316 L ss	Adapter straight (180°) entry	(Notes 2, 3)						NACE		A		
AISI 316 L ss	Adapter angle (90°) entry	(Notes 2, 3)						NACE		N		
Hastelloy C276™	1/2in NPT female	(Note 4)						NACE		E		
Hastelloy C276™	1/2in NPT male	(Note 4)						NACE		K		
Hastelloy C276™	DIN EN837-1 G 1/2in B	(Note 4)						NACE		D		
Hastelloy C276™	Adapter straight (180°) entry	(Notes 2, 4)						NACE		F		
Hastelloy C276™	Adapter angle (90°) entry	(Notes 2, 4)						NACE		C		
Monel 400™	1/2in NPT female	(Note 5)						NACE		1		
Monel 400™	1/2in NPT male	(Note 5)						NACE		2		
Monel 400™	DIN EN837-1 G 1/2in B	(Note 5)						NACE		3		
Housing material and electrical connection – 9th character												
Aluminium alloy (Barrel version)	1/2in NPT											A
Aluminium alloy (Barrel version)	M20 x 1.5 (CM 20)											B
Aluminium alloy (Barrel version)	Pg 13.5											D
Aluminium alloy (Barrel version)	1/2in GK											C
Aluminium alloy (Barrel version)	Harting Han connector	(Note 6) (general purpose only)										E
Aluminium alloy (Barrel version)	Fieldbus connector	(Note 6) (general purpose only)										G
Aluminium alloy copper-free (Barrel version)	1/2in NPT											H
Aluminium alloy copper-free (Barrel version)	M20 x 1.5 (CM 20)											L
Aluminium alloy copper-free (Barrel version)	Pg 13.5											N
Aluminium alloy copper-free (Barrel version)	1/2in GK											M
Aluminium alloy copper-free (Barrel version)	Harting Han connector	(Note 6) (general purpose only)										P
Aluminium alloy copper-free (Barrel version)	Fieldbus connector	(Note 6) (general purpose only)										R
AISI 316 L ss (Barrel version)	1/2in NPT											S
AISI 316 L ss (Barrel version)	M20 x 1.5 (CM20)											T
AISI 316 L ss (Barrel version)	Pg 13.5											V
AISI 316 L ss (Barrel version)	1/2in GK											U
AISI 316 L ss (Barrel version)	Fieldbus connector	(Note 6) (general purpose only)										Z
Output/Additional options – 10th character												
HART digital communication and 4 to 20mA	No additional options	(Notes 7, 8)										H
HART digital communication and 4 to 20mA	Options requested (to be ordered by "Additional ordering code")	(Note 7)										1
PROFIBUS PA	No additional options	(Notes 7, 8)										P
PROFIBUS PA	Options requested (to be ordered by "Additional ordering code")	(Note 8)										2
FOUNDATION Fieldbus	No additional options	(Notes 7, 8)										F
FOUNDATION Fieldbus	Options requested (to be ordered by "Additional ordering code")	(Note 8)										3

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