





2600T Series Pressure TransmitterModel 264DS Differential Pressure Transmitter

Features Include

- ♦ Base accuracy: ±0.075%
- Span limits

 0.134 to 16000kPa; 0.54inH2O
 2320psi
 0.27 to 16000kPa abs; 2mmHg
 2320psia
- 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

The ABB 264DS Differential Pressure Transmitter measures a wide range of differential pressures. Ranges are available from .54 in H2O to 2320 psi. The diaphragm material along with process flanges are available in several different materials such as 316 stainless steel, Hastelloy C276, Tantalum and Monel 400. Several choices of fill fluids and process connections are offered and there are all the 2600T

options to choose from such as HART / 4-20 mA, PROFIBUS PA, and FOUNDATION Fieldbus communications.

There are also optional output meters and a new integral digital LCD display which allows configuration ability at the transmitter. The 264DS is backed by a 5 year stability warranty which guarantees long term performance.



ABB 2600T Series Engineered solutions for all applications

Range and span limits

Condensed Specifications

Sensor Code	Upper Range Limit (URL)	Lower Range Limit (LRL)			Minimum span		
		264DS differential	264PS gauge	264VS absolute	264DS differential 264PS gauge	264VS absolute	
В	4kPa 40mbar 16inH ₂ O	-4kPa -40mbar -16inHzO	-4kPa -40mbar -16inH₂O		0.134kPa 1.34mbar 0.54inH ₂ O		
E	16kPa	–16kPa	-16kPa	0.07kPa abs	0.27kPa	0.27kPa	
	160mbar	–160mbar	-160mbar	0.7mbar abs	2.7mbar	2.7mbar	
	64inH ₂ O	–64inH2O	-64inH ₂ O	0.5mmHg	1.08inH ₂ O	2mmHg	
F	40kPa	-40kPa	-40kPa	0.07kPa abs	0.4kPa	0.67kPa	
	400mbar	-400mbar	-400mbar	0.7mbar abs	4mbar	6.7mbar	
	160inH ₂ O	-160inH2O	-160inH2O	0.5mmHg	1.6inH ₂ O	5mmHg	
G	65kPa	-65kPa	-65kPa	0.07kPa abs	0.65kPa	1.1kPa	
	650mbar	-650mbar	-650mbar	0.7mbar abs	6.5mbar	11mbar	
	260inH2O	-260inH2O	-260inH2O	0.5mmHg	2.6inH₂O	8mmHg	
н	160kPa	-160kPa	1kPa abs	0.07kPa abs	1.6kPa	2.67kPa	
	1600mbar	-1600mbar	10mbar abs	0.7mbar abs	16mbar	26.7mbar	
	642inH ₂ O	-642inH2O	0.15 psia	0.5mmHg	6.4inH ₂ O	20mmHg	
М	600kPa	-600kPa	1kPa abs	0.07kPa abs	6kPa	10kPa	
	6bar	-6bar	10mbar abs	0.7mbar abs	0.06bar	0.1bar	
	87psi	-87psi	0.15 psia	0.5mmHg	0.87psi	1.45psi	
Р	2400kPa	-2400kPa	1kPa abs	0.07kPa abs	24kPa	40kPa	
	24bar	-24bar	10mbar abs	0.7mbar abs	0.24bar	0.4bar	
	348psi	-348psi	0.15 psia	0.5mmHg	3.5psi	5.8psi	
Q	8000kPa	-8000kPa	1kPa abs	0.07kPa abs	80kPa	134kPa	
	80bar	-80bar	10mbar abs	0.7mbar abs	0.8bar	1.34bar	
	1160psi	-1160psi	0.15 psia	0.5mmHg	11.6psi	19.4psi	
s	16000kPa	-16000kPa	1kPa abs	0.07kPa abs	160kPa	267kPa	
	160bar	-160bar	10mbar abs	0.7mbar abs	1.6bar	2.67bar	
	2320psi	-2320psi	0.15 psia	0.5mmHg	23.2psi	38.7psi	

Span limits

Maximum span = URL (can be further adjusted up to ± URL (TD = 0.5) for differential models, within the range limits) 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

> 100MW at 1000VDC (terminals to earth)

Operative limits

Temperature limits °C (°F):

Ambient (is the operating temperature)

	• • • • • • • • • • • • • • • • • • • •	- p				
	Models 264	DS - 264PS	Model 264VS			
Filling	Sensors	Sensors	Sensors	Sensor		
	F to S	B to E	F to S	code E		
Silicone	-40 and +85	-25 and +85	-40 and +85	-15 and +70		
oil	(-40 and +185)	(-13 and +185)	(-40 and +185)	(+5 and +158)		
Inert		-10 and +85		not applicable		
ment		(+14 and +185)	(+14 and +150)	посарысары		
ABB fill		-10 and +85		not applicable		
700 IIII	(-4 and +185)	(+14 and +185)	(+14 and +185)	посарркаре		

Lower ambient limit for LCD indicators: -20°C (-4°F) Upper ambient limit for CoMeter and ProMeter: +70°C (+158°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

- refer to lower ambient limits; –20°C (–4°F) for Viton gasket Upper limit
- Silicone oil and ABB fill: 121°C (250°F) (1)
- Inert fluid: 100°C (212°F) (2)
- 100°C (212°F) for application below atmospheric pressure
- 65°C (150°F) for application below atmospheric pressure

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Storage

Lower limit: -50°C (-58°F); -40°C (-40°F) for LCD indi-

Upper limit: +85°C (+185°F)

Pressure limits

Overpressure limits (without damage to the transmit-

0.067kPa abs, 0.67mbar abs, 0.01psia (double with inert filling) to

- 7MPa, 70bar, 1015psi for sensor code B
- 16MPa, 160bar, 2320psi for sensor code E
- 21MPa, 210bar, 3045psi for sensor codes F to S

Static pressure

Transmitters for differential pressure model 264DS operates within

specifications between the following limits

- sensor code B:
- 1.3kPa abs, 13mbar abs, 0.2psia and 7MPa, 70bar, 1015psi
- sensor code E:
- 1.3kPa abs, 13mbar abs, 0.2psia and 16MPa, 160bar, 2320psi
- sensor codes F to S:
- 1.3kPa abs,13mbar abs, 0.2psia and 21MPa, 210bar, 3045psi

Proof pressure

The transmitter can be exposed without leaking to line pressure of up to 48MPa, 480bar, 6960psi. Meet ANSI/ ISA-S 82.03 hydrostatic test requirements and SAMA PMC 27.1.

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

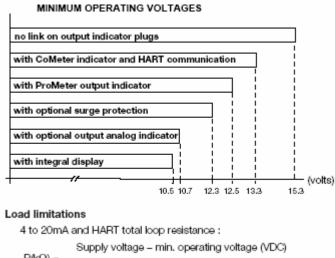
Electrical Characteristics and Options HART digital communication and 4 to 20mA output **Power Supply**

The transmitter operates from 10.5 to 42VDC with no load and is protected against reverse polarity connection (additional load allows operations over 42VDC).

For EEx ia and other intrinsically safe approval power supply must not exceed 30VDC.

Ripple

20mV max on a 250W load as per HART specifications



 $R(k\Omega) =$ 22.5

A minimum of 250Ω is required for HART communication.

Optional surge protection

Up to 4kV

- voltage 1.2 ms rise time / 50 ms delay time to half value
- current 8 ms rise time / 20 ms delay time to half value

Output signal

Two-wire 4 to 20mA, user-selectable for linear or square root output, power of 3/2 or 5/2, 5th order or two 2nd order switching point selectable programmable polynomial output.

HART® communication provides digital process variable (%, mA or engineering units) superimposed on 4 to 20mA signal, with protocol based on Bell 202 FSK standard.

Output current limits (to NAMUR standard)

Overload condition

- Lower limit: 3.8mA - Upper limit: 20.5mA

Transmitter failure mode (to NAMUR standard)

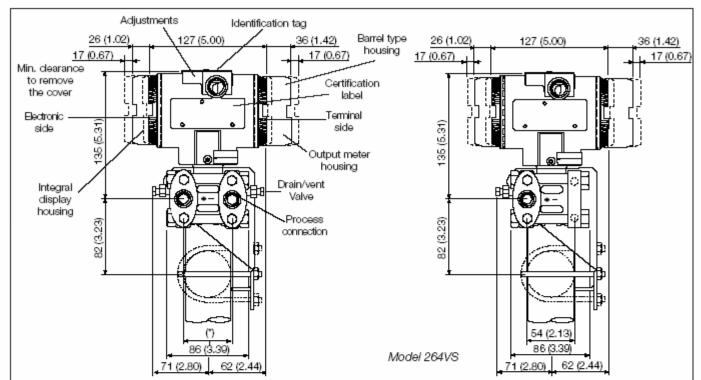
The output signal can be user-selected to a value of 3.7 or 22mA on gross transmitter failure condition, detected by self-diagnostics.

In case of CPU failure the output is driven <3.7mA or >22mA.

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

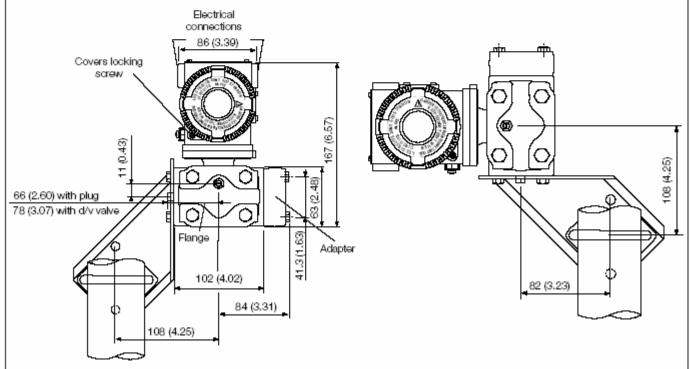
Transmitter with barrel aluminium housing on bracket for vertical or horizontal 60mm (2in) pipe mounting



(*) FOR MODEL 264DS

51 (2.01), 54 (2.13) or 57 (2.24) mm (in) according to 1/2in 14 NPT adapters fitting 54 (2.13) mm (in) on 1/4in 18 NPT process flange FOR MODEL 264PS

54 (2.13) mm (in) with low pressure side flange without process connection (a filter is fitted) and drain/vent valve



NOTE: Process connection, gasket groove and gaskets are in accordance with DIN 19213. Bolting threads for fixing adapter or other devices (i.e. manifold etc.) on process flange is 7/1sin = 20 UNF.

BASIC ORDERING INFORMATION model 264DS Differential 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.

D.W	racters		2 6 4 D	SXS	X	X	×	X
Differential Pressure Transm		0.075%						
ENSOR - Span limits - 6h								
	1.34 and 40mbar	0.54 and 16inH2O		В				
	2.7 and 160mbar	1.08 and 64inH2O		E				
	4 and 400mbar 6.5 and 650mbar	1.6 and 160inHzO 2.6 and 260inHzO		F G				
	16 and 1600mbar	6.4 and 642inH2O		н				
	0.06 and 6bar	0.87 and 87psi		м				
	0.24 and 24bar	3.5 and 348psi		P				
	0.8 and 80bar	11.6 and 1160psi		a				
160 and 16000kPa	1.6 and 160bar	23.2 and 2320psi		s				
se code - 7th character								
aphragm material / Fill flu	iid (wetted parts) – 8°° o				_			
AlSI 316 Las		Silicone oil	(Note 2)		s			
Hastelloy C276™ (on AlSI se	eat)	Silicone oil		NACE				
Hastelloy C276™ Manal 400™		Silicone oil	Aldo 2	NACE				
Monel 400™ Tentalum		Silicone oil Silicone oil	(Note 2) (Note 2)	NACE NACE				
AISI 316 Las		Inert fluid	(Notes 1, 2)	INTOE	À		1	
Hastellov C276™ (on AISI s	eat)	Inert fluid	(Notes 1, 2)	NACE				
Hastelloy C276™		Inert fluid	(Notes 1, 2)	NACE				
Monel 400™		Inert fluid	(Notes 1, 2)	NACE				
Tantalum		Inert fluid	(Notes 1, 2)	NACE				
AlSI 316 Las		ABB fill	(Note 2)		L			
Hastelloy C276™ (on AlSI s Hastelloy C276™	eat)	ABB fil ABB fil		NACE NACE				
	naterial and connection	(wetted parts) – 9th character		NACE		_		
AISI 316 Las (Horizontal co	nnection)	1/4in NPT-f direct (*/∗ein UNF U.S.	driling)	NACE		Α		
AISI 316 Las (Horizontal co	nnection)	1/sin NPT-f through adapter (1/sin	UNF U.S. drilling)	NACE		В		
Hastelloy C276™ (Horizontal	I connection)	1/4in NPT-f direct (1/4ein UNF U.S.	driling)	NACE		D		
Hastelloy C276™ (Horizonta		1/ain NPT-f through adapter (7/∞in		NACE		E		
Monel 400™ (Horizontal con		1/4in NPT-f direct (1/4ein UNF U.S.		NACE		G		
Monel 400™ (Horizontal con lits/Gasket (wetted parts)		1/sin NPT-f through adapter (1/win	UNF U.S. drilling)	NACE		Н	1	
AISI 316 ss	- 10 Character	Viton™					1	
AISI 316 88		PTFE	(Note 1)				2	
AISI 316 ss (NACE) - (MWP	= 16MPa)	Viton™	y 1000 17	NACE			3	
AlSI 316 as (NACE) - (MWP		PTFE	(Note 1)	NACE			4	
	ical connection – 11th c	haracter						
ousing material and electr Aluminium alloy (Barrel versi	on)	1/ain NPT						Α
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