Field^{IT}

2600T Series Pressure Transmitters

Model 264DS Differential

Model 264PS Gauge

Model 264VS Absolute

maximum working pressure up to 21MPa, 3045psi



■ Base accuracy: ±0.075%

■ Span limits

- 0.05 to 16000kPa; 0.2inH2O to 2320psi
- 0.27 to 16000kPa abs; 2mmHg to 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 Category IV

- suitable for safety accessory application



ABB 2600T Series Engineered solutions for all applications



Functional Specifications

Range and span limits

Sensor	Upper Range		Lower Range Limit (LRL)	Minin	num span
Code	Limit (URL)	264DS differential	264PS gauge	264VS absolute	264DS differential 264PS gauge	264VS absolute
A	1kPa 10mbar 4inH2O	-1kPa -10mbar -4inH ₂ O	-1kPa -10mbar -4inH ₂ O		0.05kPa 0.5mbar 0.2inH ₂ O	
В	4kPa 40mbar 16inH ₂ O	-4kPa -40mbar -16inH ₂ O	-4kPa -40mbar -16inH ₂ O		0.14kPa 1.4mbar 0.56inH 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	–64inH ₂ O	-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	-160inH ₂ O	-160inH ₂ O	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
	260inH ₂ O	-260inH ₂ O	-260inH ₂ O	0.5mmHg (§)	2.6inH ₂ O	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	-642inH ₂ O	0.15 psia	0.5mmHg (§)	6.4inH ₂ O	20mmHg
M	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

(§) Lower Range Limit is 0.135kPa abs, 1.35mbar abs, 1mmHg for inert Galden or 0.4kPa abs, 4mbar abs, 3mmHg for inert Halocarbon.

Span limits

Maximum span = URL

(can be further adjusted up to \pm 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

 $> 100 M\Omega$ at 1000VDC (terminals to earth)

Operative limits

Temperature limits °C (°F):

Ambient (is the operating temperature)

	Models 264	IDS - 264PS	Model	264VS
Filling	Sensors	Sensors	Sensors	Sensor
	F to S	A 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	-20 and +85	-10 and +85	-10 and +65	not applicable
Galden	(-4 and +185)	(+14 and +185)	(+14 and +150)	Tiot applicable
Inert Halocarbon		-10 and +85 (+14 and +185)		not applicable

Inert fillings not available for sensors A and B.

Lower ambient limit for LCD indicators: -20°C (-4°F)

Upper ambient limit for LCD indicators: +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: 121°C (250°F) (1)Inert fluid: 100°C (212°F) (2)

(1) 100°C (212°F) for application below atmospheric pressure

(2) 65°C (150°F) for application below atmospheric pressure

Storage

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

Upper limit: +85°C (+185°F)

Pressure limits

Overpressure limits (without damage to the transmitter)

0.07kPa abs, 0.7mbar abs, 0.01psia (0.135kPa abs, 1.35mbar abs, 1mmHg for inert Galden or 0.4kPa abs, 4mbar abs, 3mmHg for inert Halocarbon) to

- 2MPa, 20bar, 290psi for sensor code A
- 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 A:
 - 1.3kPa abs, 13mbar abs, 0.2psia and 2MPa, 20bar, 290psi
- 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.

Environmental limits

Electromagnetic compatibility (EMC)

Comply with EN 61000-6-3 for emission and EN 61000-6-2 for immunity requirements and test;

301/

Radiated electromagnetic immunity level: 30V/m

(according to IEC 1000-4-3, EN61000-4-3)

Conducted electromagnetic immunity level:

(according to IEC 1000-4-6, EN 61000-4-6)

Surge immunity level (with surge protector): 4kV

(according to IEC 1000-4-5 EN 61000-4-5)

Fast transient (Burst) immunity level: 4kV (according to IEC 1000–4–4 EN 61000–4–4)

Pressure equipment directive (PED)

Comply with 97/23/EEC Category IV Modules D and B.

Humidity

Relative humidity: up to 100% annual average

Condensing, icing: admissible

Vibration resistance

Accelerations up to 2g at frequency up to 1000Hz (according to IEC 60068-2-6)

Shock resistance

Acceleration: 50g

Duration: 11ms
(according to IEC 60068-2-27)

Wet and dust-laden atmospheres

The transmitter is dust and sand tight and protected against immersion effects as defined by EN 60529 (1989) to IP 67 (IP 68 on request) or by NEMA to 4X or by JIS to C0920. IP65 with Harting Han connector.

Hazardous atmospheres

With or without output meter/integral display

 COMBINED INTRINSIC SAFETY and FLAMEPROOF/EUROPE: ATEX/ZELM approval

II 1 GD T50°C, EEx ia IIC T6 (-40°C \leq Ta \leq +40°C) T95°C, EEx ia IIC T4 (-40°C \leq Ta \leq +85°C)

II 1/2 GD T85°C, EEx d IIC T6 (-40° C \leq Ta \leq +75°C)

- INTRINSIC SAFETY/EUROPE:

ATEX/ZELM approval

II 1 GD T50°C, EEx ia IIC T6 (-40°C \leq Ta \leq +40°C) T95°C, EEx ia IIC T4 (-40°C \leq Ta \leq +85°C)

- TYPE "N"/EUROPE:

ATEX/ZELM type examination (for HART)

II 3 GD T50°C, EEx nL IIC T6 (-40°C ≤ Ta ≤+40°C)

T95°C, EEx nL IIC T4 (-40°C \leq Ta \leq +85°C)

- FLAMEPROOF/EUROPE:

ATEX/CESI approval

II 1/2 GD T85°C, EEx d IIC T6 (-40°C \leq Ta \leq +75°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, GAEx ia IIC T6/T4, Zone 0 (FM)
- STANDARDS AUSTRALIA (SAA): TS Approval
- Intrinsically safe Ex ia IIC T4/T5 (-20°C \leq Ta \leq +80°C) only HART
- No sparking Ex n IIC T4/T6 (-20°C ≤ Ta ≤+80°C) only HART
- Flameproof Ex d IIC T4/T6 (-20°C ≤ Ta ≤+80°C)
- Dust ignitionproof DIP A21 Ta T6 (-20°C ≤ Ta ≤+80°C)
- INTRINSIC SAFETY/CHINA

NEPSI approval Ex ia IIC T4-T6

- FLAMEPROOF/CHINA

NEPSI approval Ex d IIC T6

 GOST (Russia), GOST (Kazakistan), Inmetro (Brazil) based on ATEX

Electrical Characteristics and Options

HART digital communication and 4 to 20mA output

Power Supply

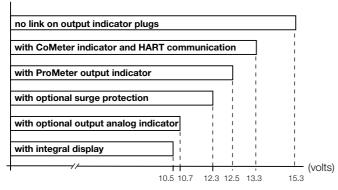
The transmitter operates from 10.5 to 42VDC with no load and is protected against reverse polarity connection (additional load allows operations over 42VDC).

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

Ripple

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

MINIMUM OPERATING VOLTAGES



Load limitations

4 to 20mA and HART total loop resistance :

R(kΩ) = $\frac{\text{Supply voltage - min. operating voltage (VDC)}}{20.5}$

A minimum of 250Ω is required for HART communication.

Optional indicators

Output meter

CoMeter and Prometer LCD:

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 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.

Optional surge protection

Up to 4kV

- voltage 1.2 μs rise time / 50 μs delay time to half value
- current 8 μs rise time / 20 μs 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: 3.8mAUpper 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.

PROFIBUS PA output

Device type

Pressure transmitter compliant to Profiles 3.0 Class A & B; ident. number 052B HEX.

Power supply

The transmitter operates from 9 to 32VDC, polarity independent.

For EEx ia approval power supply must not exceed 17.5VDC. Intrinsic safety installation according to FISCO model.

Current consumption

operating (quiescent): 10.5mA fault current limiting: 20mA max.

Output signal

Physical layer in compliance to IEC 1158-2/EN 61158-2 with transmission to Manchester II modulation, at 31.25kbit/sec.

Output interface

PROFIBUS PA communication according to Profibus DP50170 Part 2/DIN 19245 part 1-3.

Output update time

25ms

Function blocks

2 analog input, 1 transducer, 1 physical

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 output in percentage of the analog input function block assigned to the primary variable.

User-definable matrix display mode:

- process variable in pressure units or
- primary variable in engineering units (output of transducer block) or
- output as percentage or engineering units of analog input function blocks

Display also indicates diagnostic messages and provides configuration facilities.

Secondary variable, static pressure and sensor temperature can be read.

Transmitter failure mode

On gross transmitter failure condition, detected by self-diagnostics, the output signal can be driven to defined conditions, selectable by the user as safe, last valid or calculated value. If electronic failure or short circuit occur the transmitter consumption is electronically limited at a defined value (20mA approx), for safety of the network.

FOUNDATION Fieldbus output

Device type

LINK MASTER DEVICE

Link Active Scheduler (LAS) capability implemented.

Power supply

The transmitter operates from 9 to 32VDC, polarity independent.

For EEx ia approval power supply must not exceed 24VDC (entity certification) or 17.5VDC (FISCO certification), according to FF-816.

Current consumption

operating (quiescent): 10.5mA fault current limiting: 20mA max.

Output signal

Physical layer in compliance to IEC 1158-2/EN 61158-2 with transmission to Manchester II modulation, at 31.25kbit/sec.

Function blocks/execution period

- 2 enhanced Analog Input blocks/25ms max (each)
- 1 enhanced PID block/40ms max.
- 1 standard ARitmetic block/25ms
- 1 standard Input Selector block/25ms
- 1 standard Control Selector block/25ms
- 1 standard Signal Characterization block/25ms
- 1 standard Integrator/Totalizer block/25ms

Additional blocks

- 1 enhanced Resource block
- 1 custom Pressure with calibration transducer block
- 1 custom Advanced Diagnostics transducer block including Plugged Input Line Detection
- 1 custom Local Display transducer block

Number of link objects

35

Number of VCRs

35

Output interface

FOUNDATION fieldbus digital communication protocol to standard H1, compliant to specification V. 1.6; FF registration in progress.

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 percentage indication of the analog input function block output, assigned to the primary variable.

User-definable matrix display mode:

- process variable in pressure units or
- primary variable in engineering units (output of transducer block) or
- output as percentage or engineering units of one or more selected function blocks

Display also indicates diagnostic messages. Secondary variable, static pressure and sensor temperature can be read.

Transmitter failure mode

The output signal is "frozen" to the last valid value on gross transmitter failure condition, detected by self-diagnostics which also indicate a BAD conditions. If electronic failure or short circuit occur the transmitter consumption is electronically limited at a defined value (20mA approx), for safety of the network.

Performance specifications

Stated at reference condition to IEC 60770 ambient temperature of 20°C (68°F), relative humidity of 65%, atmospheric pressure of 1013hPa (1013mbar), mounting position with vertical diaphragm and zero based range for transmitter with isolating diaphragms in AISI 316 L ss or Hastelloy and silicone oil fill and HART digital trim values equal to 4–20mA span end points, in linear mode.

Unless otherwise specified, errors are quoted as % of span.

Some performance data are affected by the actual turndown (TD) as ratio between Upper Range Limit (URL) and calibrated span.

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

Dynamic performance (according to IEC 61298-1 definition)

Dead time: 40ms

Time constant (63.2% of total step change):

- sensors M to S: ≤ 70ms
- sensor H: 100ms
- sensor G: 130ms
- sensor F: 180ms

Response time (total) = dead time + time constant

Accuracy rating

% of calibrated span, including combined effects of terminal based linearity, hysteresis and repeatability.

For fieldbus versions SPAN refer to analog input function block outscale range

Model 264DS, 264PS

±0.075% for TD from 1:1 to 15:1
 (±0.10% for sensor code B for TD from 1:1 to 10:1;
 ±0.10% for sensor code A for TD from 1:1 to 4:1)

 $\begin{array}{ccc} (\pm 0.01\% \ x & \underline{URL} \\ \hline Span \\ \pm 0.025\% \ x & \underline{URL} \\ \hline Span \\ \hline \end{array} \ \ \text{for sensor code B for TD from 10:1 to 20:1;}$

Models 264VS

- ±0.075% for TD from 1:1 to 10:1

$$-\pm 0.0075\%$$
 x URL for TD from 10:1 to 20:1

Operating influences

Ambient temperature

per 20K (36°F) change between the limits of –20°C to +65°C (–4 to +150°F) :

Model	Sensor Code	for TD up to	
264DS	E to S	15:1	± (0.04% URL + 0.065% span)
264PS	В	10:1	± (0.06% URL + 0.10% span)
	А	4:1	± (0.10% URL + 0.10% span)
264VS	E to S	10:1	± (0.08% URL + 0.13% span)

Optional CoMeter and ProMeter ambient temperature

Total reading error per 20K (36°F) change between the ambient limits of -20 and +70°C (-4 and +158°F):

±0.15% of max span (16mA).

Static pressure (zero errors can be calibrated out at line pressure)

per 0.5MPa, 5bar or 72.5psi (sensor code A) per 2MPa, 20bar or 290psi (sensor code B) per 7MPa, 70bar or 1015psi (sensor codes E to S)

Model 264DS

zero error: ±0.08% of URL
span error: ±0.08% of reading
Multiply by 2 the errors for sensor code E.

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.

Electromagnetic field

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

Common mode interference

No effect from 100Vrms @ 50Hz, or 50VDC

Mounting position

Rotations in plane of diaphragm have negligible effect. A tilt to 90° from vertical causes a zero shifts up to 0.5kPa, 5mbar or 2inH₂O, which can be corrected with the zero adjustment. No span effect.

Stability

±0.15% of URL over a five years period (±0.25% for sensor code A)

Vibration effect

±0.10% of URL (according to IEC 61298-3)

Physical Specification

(Refer to ordering information sheets for variant availability related to specific model or versions code)

Materials

Process isolating diaphragms (*)

AISI 316 L ss; AISI 316 L ss gold plated; Monel 400™; Tantalum; Hastelloy C276™; Hastelloy C276™ on AISI 316L ss gasket seat.

Process flanges, adapters, plugs and drain/vent valves (*)

AISI 316 L ss; Hastelloy C276™; Monel 400™.

Blind flange (reference side of 264PS, 264VS)

AISI 316 L ss.

Sensor fill fluid

Silicone oil (DC200™); inert fill (Halocarbon™ 4.2 or Galden™).

Mounting bracket (**)

Zinc plated carbon steel with chrome passivation;

AISI 316 L ss.

Gaskets (*)

Viton™; PTFE.

Sensor housing

AISI 316 L ss.

Bolts and nuts

AISI 316 ss bolts Class A4–80 and nuts Class A4–70 per UNI 7323 (ISO 3506);

AISI 316 ss bolts and nuts Class A4–50 per UNI 7323 (ISO 3506), in compliance with NACE MR0175 Class II.

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.

Electronic housing and covers

Barrel version

- Copper-free content aluminium alloy with baked epoxy finish;
- Low-copper content aluminium alloy with baked epoxy finish;
- AISI 316 L ss.

DIN version

- 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 316ss 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.

Optional extras

Mounting brackets

For vertical and horizontal 60mm. (2in) pipes or wall mounting.

Output indicator

plug-in rotatable type, LCD or analog.

Supplemental customer tag

AISI 316 ss tag screwed/fastened to the transmitter for customer's tag data up to a maximum of 20 characters and spaces on one line for tag number and tag name, and up to a maximum of 3 spaced strings of 10 characters each for calibration details (lower and upper values plus unit). Special typing evaluated on request for charges.

Surge protection (only as external unit for PROFIBUS PA and FF)

Cleaning procedure for oxygen service

Hydrogen or special service preparation

Test Certificates (test, design, calibration, material traceability)

Tag and manual language

Communication connectors

Process connections

on flanges: 1/4 - 18 NPT on process axis

on adapters: 1/2 - 14 NPT on process axis

centre distance (264DS): 54mm (2.13in) on flange; 51,54 or 57mm (2.01, 2.13 or 2.24in) as per adapters fittings

fixing threads: 7/16 - 20 UNF at 41.3mm centre distance

Electrical connections

Two $^{1}/_{2}$ – 14 NPT or M20x1.5 or PG 13.5 or $^{1}/_{2}$ GK threaded conduit entries, direct on housing.

Special communication connector (on request)

- HART: straight or angle Harting Han connector and one plug.
- FOUNDATION Fieldbus, PROFIBUS PA: M12x1 or 7/8.

Terminal block

HART version: three terminals for signal/external meter wiring up to 2.5mm² (14AWG) and three connection points for test and communication purposes.

Fieldbus versions: two terminals for signal wiring (bus connection) up to 2.5mm² (14AWG)

Grounding

Internal and external 6mm² (10AWG) 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)

3.5kg approx (8lb); add 1.5kg (3.4lb) for AISI housing. Add 650g (1.5lb) for packing.

Packing

Carton 26 x 26 x 18cm approx (10 x 10 x 7in).

- (*) Wetted parts of the transmitter.
- (**) U-bolt material: AISI 400 ss; screws material: high-strength alloy steel or AISI 316 ss.

Configuration

Transmitter with HART communication and 4 to 20 mA

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 kPa 4 mA Zero

20 mA Upper Range Limit (URL)

Output Linear
Damping 1 sec.
Transmitter failure mode Upscale
Software tag (8 characters max) Blank

Optional LCD indicator/display 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 HART hand-held communicator or by a PC running the configuration software SMART VISION with DTM for 2600T. The transmitter database is customized with specified flange type and material, O-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

Transmitter with PROFIBUS PA communication

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:

Measure Profile Pressure Engineering Unit kPa

Output scale 0% Lower Range Limit (LRL)
Output scale 100% Upper Range Limit (URL)

Output Linear

Hi-Hi Limit Upper Range Limit (URL)
Hi Limit Upper Range Limit (URL)
Low Limit Lower Range Limit (LRL)
Low-Low Limit Lower Range Limit (LRL)
Limits hysteresis 0.5% of output scale

PV filter 0 sec. Address (settable by local key) 126

Tag 32 alphanumeric characters

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 by a PC running the configuration software SMART VISION with DTM for 2600T. The transmitter database is customized with specified flange type and material, O-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 32 alphanumeric characters Message 32 alphanumeric characters

Date Day, month, year

Transmitter with FOUNDATION Fieldbus communication

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 the analog input function block FB1 is configured as follows:

Measure Profile Pressure Engineering Unit kPa

Output scale 0% Lower Range Limit (LRL)
Output scale 100% Upper Range Limit (URL)

Output Linear

Hi-Hi Limit Upper Range Limit (URL)
Hi Limit: Upper Range Limit (URL)
Low Limit Lower Range Limit (LRL)
Low-Low Limit Lower Range Limit (LRL)
Limits hysteresis 0.5% of output scale

PV filter time 0 sec.

Tag 32 alphanumeric characters

The analog input function block FB2 is configured for the sensor temperature measured in °C. Any or all the above configurable parameters, including the range values, can be changed using any host compliant to FOUNDATION fieldbus. The transmitter database is customized with specified flange type and material, O-ring and drain/vent materials and meter code option.

For any protocol available engineering units of pressure measure are :

Pa, kPa, MPa

inH₂O@4°C, mmH₂O@4°C, psi

 $inH_{2}O@20^{\circ}C,\,ftH_{2}O@20^{\circ}C,\,mmH_{2}O@20^{\circ}C$

inHg, mmHg, Torr g/cm², kg/cm², atm

mbar, bar

[™] Hastelloy is a Cabot Corporation trademark

[™] Monel is an International Nickel Co. trademark

[™] DC 200 is a Dow Corning Corporation trademark

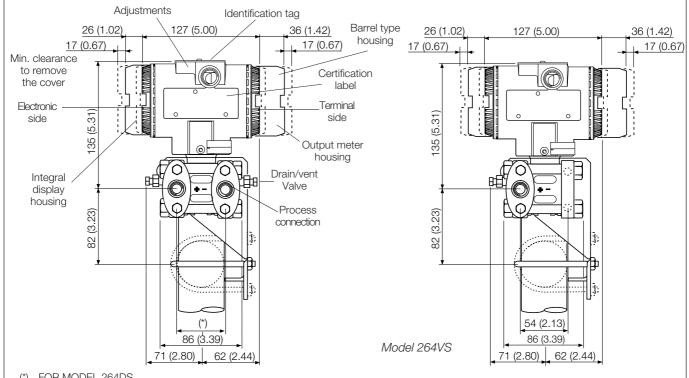
[™] Galden is a Montefluos trademark

[™] Halocarbon is a Halocarbon Products Co. trademark

[™] Viton is a Dupont de Nemour trademark

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

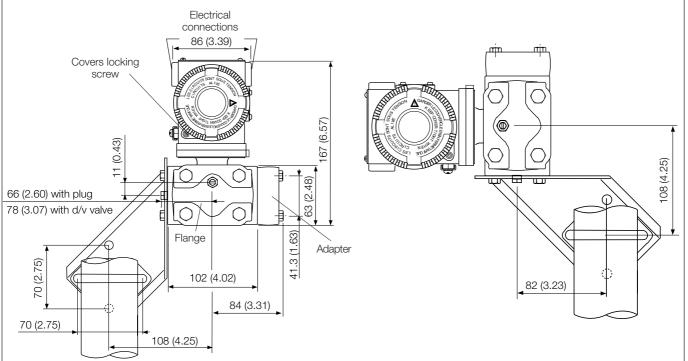
Transmitter with barrel aluminium housing on bracket for vertical or horizontal 60mm (2in) pipe mounting



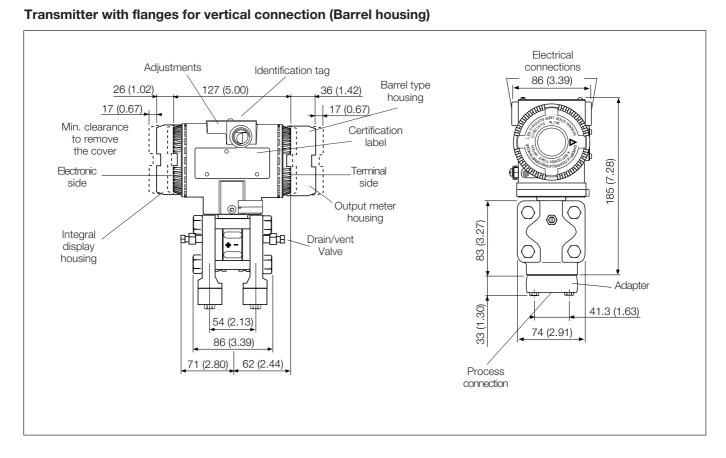
FOR MODEL 264DS

51 (2.01), 54 (2.13) or 57 (2.24) mm (in) according to ½ - 14 NPT adapters fitting; 54 (2.13) mm (in) on ¼ - 18 NPT process flange FOR MODEL 264PS

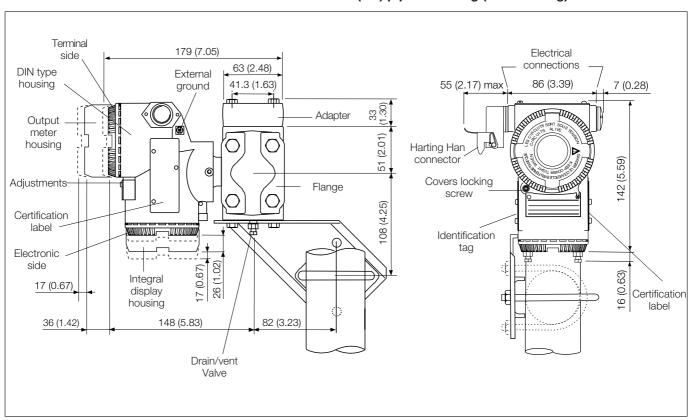
54 (2.13) mm (in) with low pressure side flange without process connection (a filter is fitted) and drain/vent valve



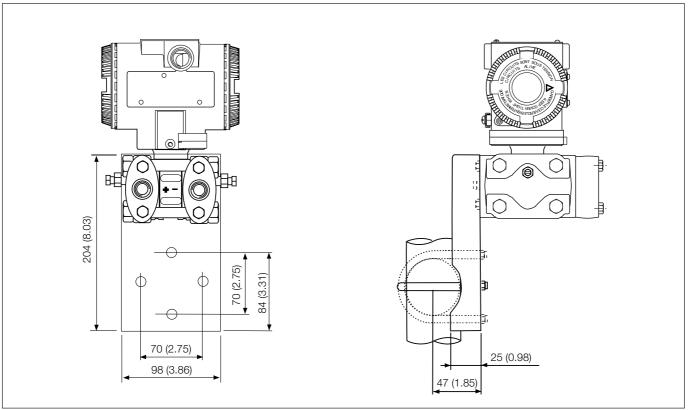
NOTE: Process connection, gasket groove and gaskets are in accordance with DIN 19213. Bolting threads for fixing adapter or other devices (i.e. manifold etc.) on process flange is 7/16 - 20 UNF.



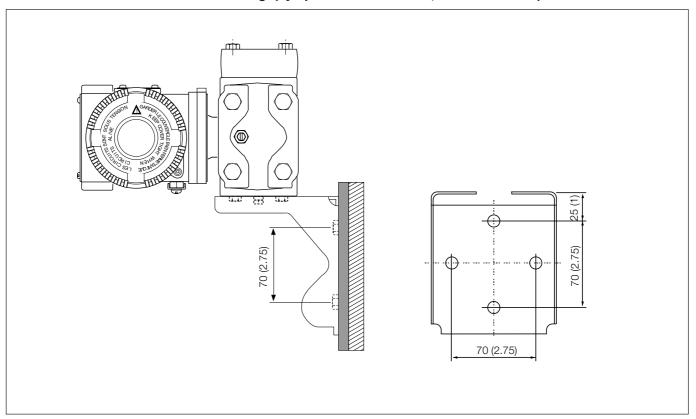
Transmitter on bracket for vertical or horizontal 60 mm (2in) pipe mounting (DIN housing)



Transmitter with barrel AISI ss housing on bracket (flat type for box) for vertical or horizontal 60mm (2in) pipe mounting

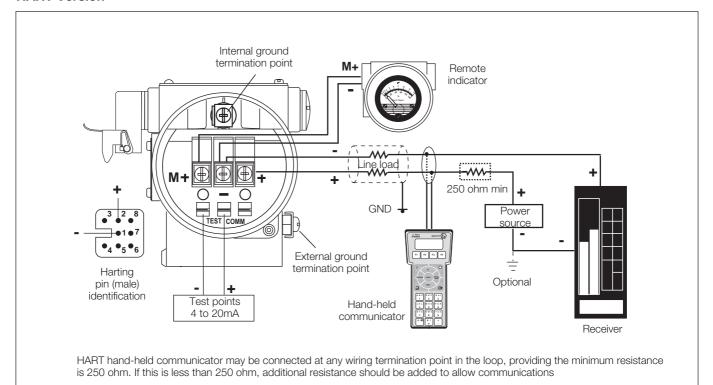


Transmitter on bracket for wall mounting (by up to four M8 screws, NOT SUPPLIED)

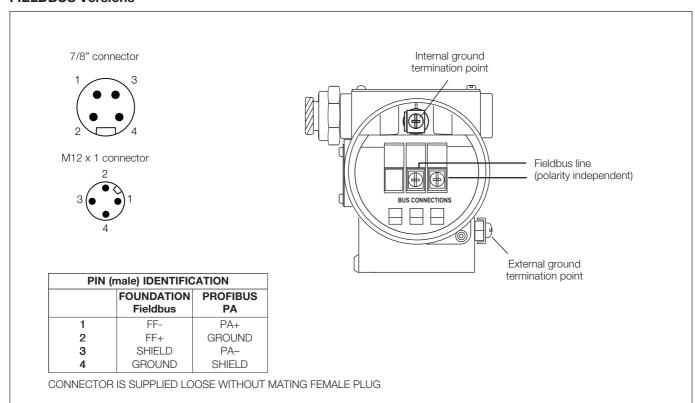


Electrical connections

HART Version



FIELDBUS Versions



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.

ASE MODEL – 1st to 5th	characters		2 6 4 D	o s x s x	ХХ	X C
Differential Pressure Tran	nsmitter – BASE ACCURA	ACY 0.075%				
ENSOR - Span limits -	6 th character					
0.05 and 1kPa	0.5 and 10mbar	0.2 and 4inH ₂ O		A		
0.14 and 4kPa	1.4 and 40mbar	0.56 and 16inH2O		B		
0.27 and 16 kPa	2.7 and 160mbar	1.08 and 64inH2O		E		
0.4 and 40kPa 0.65 and 65kPa	4 and 400mbar 6.5 and 650mbar	1.6 and 160inH2O 2.6 and 260inH2O		G		
1.6 and 160kPa	16 and 1600mbar	6.4 and 642inH ₂ O		H		
6 and 600kPa	0.06 and 6bar	0.44 and 642iii 120 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		ŝ		
se code - 7 th character						
aphragm material / Fil	Il fluid (wetted parts) - 8	B th character				
AISI 316 L ss		Silicone oil	(Note 2)	S		
Hastelloy C276™ (on Als	SI seat)	Silicone oil		NACE H		
Hastelloy C276™		Silicone oil		NACE K		
Monel 400™		Silicone oil	(Note 2)	NACE M		
AISI 316 L ss gold plate	d	Silicone oil	(Note 2)	8		
Tantalum		Silicone oil	(Note 2)	NACE T		
AISI 316 L ss		Inert fluid - Galden	(Notes 1, 2)	Α		
Hastelloy C276™ (on Als	SI seat)	Inert fluid - Galden	(Notes 1, 2)	NACE B		
Hastelloy C276™		Inert fluid - Galden	(Notes 1, 2)	NACE F		
Monel 400 TM	d	Inert fluid - Galden	(Notes 1, 2)	NACE C		
AISI 316 L ss gold plate	u	Inert fluid - Galden	(Notes 1, 2)	NACE D		
Tantalum		Inert fluid - Galden Inert fluid - Halocarbon	(Notes 1, 2)	NACE D		
AISI 316 L ss	01+\		(Notes 1, 2)	L		
Hastelloy C276™ (on Als	Si seal)	Inert fluid - Halocarbon Inert fluid - Halocarbon	(Notes 1, 2)	NACE Q NACE P		
Hastelloy C276 [™] Monel 400 [™]		Inert fluid - Halocarbon Inert fluid - Halocarbon	(Notes 1, 2) (Notes 1, 2)	NACE P		
AISI 316 L ss gold plate	d	Inert fluid - Halocarbon	(Notes 1, 2)	NACE 4		
Tantalum	u	Inert fluid - Halocarbon	(Notes 1, 2)	NACE 5		
	rs material and connec	tion (wetted parts) – 9 th character	(140163-1, 2)	TVAOL 5		
AISI 316 L ss (Horizonta	al connection)	1/4 - 18 NPT-f direct (7/16 - 20 U	NELLS drilling)	NACE .	A	
AISI 316 L ss (Horizonta		1/2 – 14 NPT-f through adapter (B	
Hastelloy C276™ (Horizo		1/4 – 18 NPT-f direct (7/16 – 20 U				
Hastelloy C276™ (Horizo		1/2 – 14 NPT-f through adapter (E	
Monel 400™ (Horizontal		1/4 – 18 NPT-f direct (7/16 – 20 U			G	
Monel 400™ (Horizontal		1/2 - 14 NPT-f through adapter (NACE	н	
AISI 316 L ss (Vertical co	,	1/4 - 18 NPT-f direct (7/16 - 20 U	·	NACE	Q	
AISI 316 L ss (Vertical co	onnection)	1/2 - 14 NPT-f through adapter (7/16 - 20 UNF U.S. drilling)	NACE	T	
Hastelloy C276™ (Vertic	al connection)	1/4 - 18 NPT-f direct (7/16 - 20 U	NF U.S. drilling)	NACE I	M	
Hastelloy C276™ (Vertic	al connection)	1/2 - 14 NPT-f through adapter (7/ ₁₆ – 20 UNF U.S. drilling)	NACE	S	
Monel 400™ (Vertical co	onnection)	1/4 - 18 NPT-f direct (7/16 - 20 U	NF U.S. drilling)	NACE	U	
Monel 400™ (Vertical co	nnection)	¹ / ₂ – 14 NPT-f through adapter (7/ ₁₆ – 20 UNF U.S. drilling)	NACE	V	
olts/Gasket (wetted pa	irts) - 10 th character					
AISI 316 ss		Viton™				
AISI 316 ss					1	
	NA/D 4 OMD)	PTFE Note of TM	(Note 1)	NIAGE	2	
AISI 316 ss (NACE) - (M		Viton™	, ,	NACE	2 3	
AISI 316 ss (NACE) - (M AISI 316 ss (NACE) - (M		Viton™ PTFE	(Note 1) (Note 1)	NACE	2 3 4	
AISI 316 ss (NACE) – (M AISI 316 ss (NACE) – (M Alloy steel (NACE)		$Viton^{TM}$ PTFE $Viton^{TM}$	(Note 1)	NACE NACE	2 3 4 8	
AISI 316 ss (NACE) – (M AISI 316 ss (NACE) – (M Alloy steel (NACE) Alloy steel (NACE)	MWP = 16MPa)	Viton™ PTFE Viton™ PTFE	, ,	NACE	2 3 4	
AISI 316 ss (NACE) – (M AISI 316 ss (NACE) – (M Alloy steel (NACE) Alloy steel (NACE) Dusing material and elec	MWP = 16MPa) ectrical connection - 1	Viton™ PTFE Viton™ PTFE 1 [™] character	(Note 1)	NACE NACE	2 3 4 8 9	
AISI 316 ss (NACE) – (M AISI 316 ss (NACE) – (M Alloy steel (NACE) Alloy steel (NACE) Dusing material and ele Aluminium alloy (Barrel v	MWP = 16MPa) ectrical connection - 1 version)	Viton™ PTFE Viton™ PTFE 1™ character 1/2 – 14 NPT	(Note 1)	NACE NACE	2 3 4 8 9	A
AISI 316 ss (NACE) – (M AISI 316 ss (NACE) – (M Alloy steel (NACE) Alloy steel (NACE) busing material and ele Aluminium alloy (Barrel v Aluminium alloy (Barrel v	MWP = 16MPa) ectrical connection - 1 version) version)	Viton™ PTFE Viton™ PTFE 1 th character 1/2 - 14 NPT M20 x 1.5 (CM 20)	(Note 1)	NACE NACE	2 3 4 8 9	В
AISI 316 ss (NACE) – (M AISI 316 ss (NACE) – (M Alloy steel (NACE) Alloy steel (NACE) busing material and ele Aluminium alloy (Barrel v Aluminium alloy (Barrel v Aluminium alloy (Barrel v	MWP = 16MPa) ectrical connection - 17 version) version) version)	Viton™ PTFE Viton™ PTFE 1 th character 1/2 – 14 NPT M20 x 1.5 (CM 20) Pg 13.5	(Note 1)	NACE NACE	2 3 4 8 9	B D
AISI 316 ss (NACE) – (MAISI 316 ss (NACE) – (MAISI 316 ss (NACE) – (MAISI 316 ss (NACE) – (MACE) – (MA	MWP = 16MPa) ectrical connection - 1 ⁻¹ version) version) version)	Viton™ PTFE Viton™ PTFE 1 th character 1/2 - 14 NPT M20 x 1.5 (CM 20) Pg 13.5 1/2 GK	(Note 1) (Note 1)	NACE NACE NACE	2 3 4 8 9	B D C
AISI 316 ss (NACE) – (MAISI 316 ss (NACE) – (MAISI 316 ss (NACE) – (MAISI 316 ss (NACE) pusing material and ele Aluminium alloy (Barrel valuminium	MWP = 16MPa) ectrical connection - 1 version) version) version) version) version)	Viton™ PTFE Viton™ PTFE 1 th character 1/2 - 14 NPT M20 x 1.5 (CM 20) Pg 13.5 1/2 GK Harting Han connector	(Note 1) (Note 1) (general purpose only)	NACE NACE NACE (Note 3)	2 3 4 8 9	B D C E
AISI 316 ss (NACE) – (MAISI 316 ss (NACE) – (MAISI 316 ss (NACE) – (MAISI 316 ss (NACE) Alloy steel (NACE) cusing material and electric and alloy (Barrel valuminium alloy	AWP = 16MPa) ectrical connection - 1 version) version) version) version) version) version)	Viton™ PTFE Viton™ PTFE 1 th character 1/2 - 14 NPT M20 x 1.5 (CM 20) Pg 13.5 1/2 GK Harting Han connector Fieldbus connector	(Note 1) (Note 1)	NACE NACE NACE	2 3 4 8 9	B D C E G
AISI 316 ss (NACE) – (MAISI 316 ss (NACE) – (MAISI 316 ss (NACE) – (MAIIOy steel (NACE) susing material and electric land el	AWP = 16MPa) ectrical connection - 1 version) version) version) version) version) version) version) version)	Viton™ PTFE Viton™ PTFE Viton™ PTFE 1™ character 1/2 - 14 NPT M20 x 1.5 (CM 20) Pg 13.5 1/2 GK Harting Han connector Fieldbus connector 1/2 - 14 NPT	(Note 1) (Note 1) (general purpose only)	NACE NACE NACE (Note 3)	2 3 4 8 9	B D C E G H
AISI 316 ss (NACE) – (MAISI 316 ss (NACE) – (MAISI 316 ss (NACE) – (MAISI 316 ss (NACE) – (MACE) – (MACE) – (MACE) – (MAISI 316 steel (NACE) – (MAISI 316 steel	ectrical connection – 1: version) version) version) version) version) version) free (Barrel version) free (Barrel version)	Viton™ PTFE Viton™ PTFE 1 th character 1/2 – 14 NPT M20 x 1.5 (CM 20) Pg 13.5 1/2 GK Harting Han connector Fieldbus connector 1/2 – 14 NPT M20 x 1.5 (CM 20)	(Note 1) (Note 1) (general purpose only)	NACE NACE NACE (Note 3)	2 3 4 8 9	B D C E G H L
AISI 316 ss (NACE) – (MAISI 316 ss (NACE) – (ectrical connection – 1 ⁻¹ version) version) version) version) version) version) free (Barrel version) free (Barrel version)	Viton™ PTFE Viton™ PTFE Viton™ PTFE 1 th character 1/2 - 14 NPT M20 x 1.5 (CM 20) Pg 13.5 1/2 GK Harting Han connector Fieldbus connector 1/2 - 14 NPT M20 x 1.5 (CM 20) Pg 13.5	(Note 1) (Note 1) (general purpose only)	NACE NACE NACE (Note 3)	2 3 4 8 9	B D C E G H L N
AISI 316 ss (NACE) – (MAISI 316 ss (NACE) – (MAISI 316 ss (NACE) – (MAISI 316 ss (NACE) – (MACE) Alloy steel (NACE) busing material and electric and alloy (Barrel valuminium alloy copperaluminium alloy copperaluminium alloy copperaluminium alloy copper-	ectrical connection – 1 ⁻¹ version) version) version) version) version) version) version) free (Barrel version) free (Barrel version) free (Barrel version)	Viton™ PTFE Viton™ PTFE 1 th character 1/2 - 14 NPT M20 x 1.5 (CM 20) Pg 13.5 1/2 GK Harting Han connector Fieldbus connector 1/2 - 14 NPT M20 x 1.5 (CM 20) Pg 13.5 1/2 GK	(Note 1) (Note 1) (general purpose only) (general purpose only)	NACE NACE NACE (Note 3)	2 3 4 8 9	B D C E G H L N M
AISI 316 ss (NACE) – (MAISI 316 ss (NACE) 316	AWP = 16MPa) ectrical connection - 1 version) version) version) version) version) free (Barrel version)	Viton™ PTFE Viton™ PTFE 1 th character 1/2 - 14 NPT M20 x 1.5 (CM 20) Pg 13.5 1/2 GK Harting Han connector Fieldbus connector Fieldbus connector 1/2 - 14 NPT M20 x 1.5 (CM 20) Pg 13.5 1/2 GK Harting Han connector	(Note 1) (Rote 1) (general purpose only) (general purpose only) (general purpose only)	NACE NACE NACE (Note 3) (Note 3)	2 3 4 8 9	B D C E G H L N M P
AISI 316 ss (NACE) – (MAISI 316 ss (NACE) – (ectrical connection – 1 version) version) version) version) version) version) free (Barrel version)	Viton™ PTFE Viton™ PTFE Viton™ PTFE 1 th character 1/2 - 14 NPT M20 x 1.5 (CM 20) Pg 13.5 1/2 GK Harting Han connector Fieldbus connector 1/2 - 14 NPT M20 x 1.5 (CM 20) Pg 13.5 1/2 GK Harting Han connector Fieldbus connector	(Note 1) (Note 1) (general purpose only) (general purpose only)	NACE NACE NACE (Note 3)	2 3 4 8 9	B D C E G H L N M P R
AISI 316 ss (NACE) – (MAISI 316 ss (NACE) 316	ectrical connection – 1: version) version) version) version) version) version) free (Barrel version)	Viton™ PTFE Viton™ PTFE Viton™ PTFE 1 th character 1/2 – 14 NPT M20 x 1.5 (CM 20) Pg 13.5 1/2 GK Harting Han connector Fieldbus connector V2 = 14 NPT M20 x 1.5 (CM 20) Pg 13.5 1/2 GK Harting Han connector Fieldbus connector Fieldbus connector Fieldbus connector Fieldbus connector	(Note 1) (Rote 1) (general purpose only) (general purpose only) (general purpose only)	NACE NACE NACE (Note 3) (Note 3)	2 3 4 8 9	B D C E G H L N M P R S
AISI 316 ss (NACE) – (MAISI 316 L ss (Barrel valuminium alloy (Barrel valuminium alloy (Barrel valuminium alloy (Barrel valuminium alloy copper-Aluminium alloy sopper-Aluminium alloy copper-Aluminium alloy sopper-Aluminium alloy	ectrical connection – 1 ⁻¹ version) version) version) version) version) version) free (Barrel version)	Viton™ PTFE Viton™ PTFE Viton™ PTFE 1 th character 1/2 - 14 NPT M20 x 1.5 (CM 20) Pg 13.5 1/2 GK Harting Han connector Fieldbus connector 1/2 - 14 NPT M20 x 1.5 (CM 20) Pg 13.5 1/2 GK Harting Han connector Fieldbus connector Fieldbus connector Fieldbus connector Fieldbus connector Fieldbus connector V2 = 14 NPT M20 x 1.5 (CM20)	(Note 1) (Rote 1) (general purpose only) (general purpose only) (general purpose only)	NACE NACE NACE (Note 3) (Note 3)	2 3 4 8 9	B D C E G H L N M P R S T
AISI 316 ss (NACE) – (MAISI 316 ss (Barrel valuminium alloy (Barrel valuminium alloy (Barrel valuminium alloy (Barrel valuminium alloy (Copper-Aluminium alloy (Copper-Aluminium alloy (Copper-Aluminium alloy (MAISI 316 ss (Barrel ver AISI 316 ss (Barrel v	ectrical connection – 1* version) version) version) version) version) version) version) free (Barrel version) freion) rsion)	Viton™ PTFE Viton™ PTFE Viton™ PTFE 1 th character 1/2 - 14 NPT M20 x 1.5 (CM 20) Pg 13.5 1/2 GK Harting Han connector Fieldbus connector 1/2 - 14 NPT M20 x 1.5 (CM 20) Pg 13.5 1/2 GK Harting Han connector Fieldbus connector Fieldbus connector 1/2 - 14 NPT M20 x 1.5 (CM20) Pg 13.5	(Note 1) (Rote 1) (general purpose only) (general purpose only) (general purpose only)	NACE NACE NACE (Note 3) (Note 3)	2 3 4 8 9	B D C E G H L N M P R S T V
AISI 316 ss (NACE) – (MAISI 316 ss (NACE) ousing material and electric land and electric land and electric land alloy (Barrel valuminium alloy copper-Aluminium alloy copper-Aluminium alloy copper-Aluminium alloy copper-Aluminium alloy copper-Aluminium alloy copper-Aluminium alloy copper-Alsi 316 L ss (Barrel ver AISI	ectrical connection – 1 version) version) version) version) version) version) version) free (Barrel version) freion) resion) resion)	Viton™ PTFE Viton™ PTFE Viton™ PTFE 1 th character 1/2 - 14 NPT M20 x 1.5 (CM 20) Pg 13.5 1/2 GK Harting Han connector Fieldbus connector 1/2 - 14 NPT M20 x 1.5 (CM 20) Pg 13.5 1/2 GK Harting Han connector Fieldbus connector Fieldbus connector Fieldbus connector Fieldbus connector 1/2 - 14 NPT M20 x 1.5 (CM20) Pg 13.5 1/2 GK	(Note 1) (general purpose only) (general purpose only) (general purpose only) (general purpose only)	NACE NACE NACE (Note 3) (Note 3) (Note 3)	2 3 4 8 9	B D C E G H L N M P R S T V U
AISI 316 ss (NACE) – (MASI 316 ss (NACE) – (AWP = 16MPa) ectrical connection - 1 version) version) version) version) version) version) free (Barrel version) freion) freion) freion)	Viton™ PTFE Viton™ PTFE Viton™ PTFE 1 th character 1/2 – 14 NPT M20 x 1.5 (CM 20) Pg 13.5 1/2 GK Harting Han connector Fieldbus connector 1/2 – 14 NPT M20 x 1.5 (CM 20) Pg 13.5 1/2 GK Harting Han connector Fieldbus connector Fieldbus connector 1/2 – 14 NPT M20 x 1.5 (CM20) Pg 13.5 1/2 GK Fieldbus connector	(Note 1) (Rote 1) (general purpose only) (general purpose only) (general purpose only) (general purpose only) (general purpose only)	NACE NACE NACE (Note 3) (Note 3)	2 3 4 8 9	B D C E G H L N M P R S T V U Z
AISI 316 ss (NACE) – (MAISI 316 L ss (Barrel valuminium alloy copper-Aluminium alloy copper-Alsi 316 L ss (Barrel ver AISI 316 L ss (Barr	dWP = 16MPa) ectrical connection - 1 ⁻¹ version) version) version) version) version) free (Barrel version) freion) rsion) rsion) rsion)	Viton™ PTFE Viton™ PTFE Viton™ PTFE 1 th character 1/2 - 14 NPT M20 x 1.5 (CM 20) Pg 13.5 1/2 GK Harting Han connector Fieldbus connector 1/2 - 14 NPT M20 x 1.5 (CM 20) Pg 13.5 1/2 GK Harting Han connector Fieldbus connector Fieldbus connector Fieldbus connector Fieldbus connector 1/2 - 14 NPT M20 x 1.5 (CM20) Pg 13.5 1/2 GK	(Note 1) (general purpose only) (general purpose only) (general purpose only) (general purpose only)	NACE NACE NACE (Note 3) (Note 3) (Note 3)	2 3 4 8 9	B D C E G H L N M P R S T V U

ADDITIONAL BASIC ORDERING INFORMATION			Х
Output/Additional options – 12th character			
HART digital communication and 4 to 20mA	No additional options	(Notes 4, 5)	Н
HART digital communication and 4 to 20mA	Options requested (to be ordered by "Additional ordering code")	(Note 4)	1
PROFIBUS PA	No additional options	(Notes 4, 5)	Р
PROFIBUS PA	Options requested (to be ordered by "Additional ordering code")	(Note 5)	2
FOUNDATION Fieldbus	No additional options	(Notes 4, 5)	F
FOUNDATION Fieldbus	Options requested (to be ordered by "Additional ordering code")	(Note 5)	3

ADDITIONAL ORDERING INFORMATION for model 264DS

Add one or more 2-digit code(s) after the basic ordering information to select all required options

				XX	XX	XX	Con						
rain/vent valve (mate	rial and position) (wetted parts)			_									
AISI 316 L ss	on process axis	(Note 6)	NACE	V1									
AISI 316 L ss	on flange side top	(Note 7)	NACE	V2									
AISI 316 L ss	on flange side bottom	(Note 7)	NACE	V3									
Hastelloy C276™	on process axis	(Note 8)	NACE	V4									
Hastelloy C276™	on flange side top	(Note 9)	NACE	V5									
		,											
Hastelloy C276™	on flange side bottom	(Note 9)	NACE	V6									
Monel 400™	on process axis	(Note 10)	NACE	V7									
Monel 400™	on flange side top	(Note 11)	NACE	V8									
Monel 400™	on flange side bottom	(Note 11)	NACE	V9									
ectrical certification													
	ory 1 GD – Intrinsic Safety EEx ia				E1								
ATEX Group II Categ	ory 1/2 GD – Flameproof EEx d				E2								
ATEX Group II Cated	ory 3 GD - Type of protection "N" El	Ex nL design compliance (Note 12)			E3								
	Association (CSA) (only 1/2-14NPT, M		nn)		E4								
	SAA (Not Ex ia and Ex n for PROFIBL	o .	,		E5								
					E6								
	approval (only with ½–14NPT, M20 a	and Fg 13.5 electrical connection)											
	trinsic Safety and Flameproof	0			E7								
, ,	sic Safety Ex ia (Not available for FF	Output code 3)			EY								
NEPSI (China) - Flam	eproof Ex d				ΕZ								
GOST (Russia) EEx ia	a				W1								
GOST (Russia) EEx					W2								
GOST (Kazakistan) E					W3								
GOST (Kazakistan) E					W4								
Inmetro (Brazil) EEx is					W5								
, ,	*												
Inmetro (Brazil) EEx o					W6								
Inmetro (Brazil) EEx r	nL (Note 12)				W7	l							
utput meter													
ProMeter, Standard	calibration		(Note 12)			D1							
ProMeter, Special ca	libration		(Note 12)			D2							
	tor linear 0-100% scale		(Note 12)			D3							
• ,	tor square root 0-10 scale		(Note 12)			D4							
	tor, special graduation (to be specifie	nd for linear scale)	(Note 12)			D5							
	tor, special graduation (to be specifie		(Note 12)			D6							
	meter and HART configurator (CoM		(Note 12)			D7							
Programmable signa	meter and HART configurator (CoM	eter – customer configuration)	(Note 12)			D8							
itegral LCD													
Digital LCD integral of	lisplay						L1						
								l					
lounting bracket (sha	•												
For pipe mounting	(Not suitable for AISI housing)	Carbon steel						B1					
For pipe mounting	(Not suitable for AISI housing)	AISI 316 L ss						B2					
For wall mounting	(Not suitable for AISI housing)	Carbon steel						ВЗ					
For wall mounting	(Not suitable for AISI housing)							B4					
Flat type for box	(AISI 316 L ss						B5					
urge									1				
•	. //												
0	ector (Internal for HART / 4-20mA)												
	ector (External supplied loose for PR								S1				
suitable with 1/2-14N	PT and M20 electrical connection an	d with ATEX, FM and CSA certifica	tions, no DUST)										
perating manual													
German										M1			
Italian French										M2 M4			
										IVI4	l		
abels & tag language													
German											T1		
Italian											T2		
											T4		
French													1
dditional tag plate	on stainless steel plate											12	

ADDITIONAL ORDERING INFORMATION for model 264DS	XX	XX	XX	ХX	ХХ
Configuration					
Standard – Pressure = inH2O/psi at 20° C; Temperature = deg. F	N2				
Standard – Pressure = inH ₂ O/psi at 4° C; Temperature = deg. F	N3				
Standard – Pressure = inH2O/psi at 20° C; Temperature = deg.C	N4				
Standard – Pressure = inH2O/psi at 4° C; Temperature = deg. C Custom	N5 N6				
Preparation procedure	110				
Oxygen service cleaning (only available with inert fill and PTFE gasket) – P _{max} =12MPa for Galden, 9MPa for Halocarbon; T _{max} =60° C/14C Hydrogen service preparation Special services preparation	°F	P1 P2 P4			
Certificates					
Inspection certificate EN 10204–3.1.B of calibration (9-point) Certificate of compliance with the order EN 10204–2.1 of instrument design			C1 C6		
Material traceability					
Certificate of compliance with the order EN 10204–2.1 of process wetted parts Inspection certificate EN 10204–3.1.B of process wetted parts				H1 H3	
Connector					
Fieldbus 7/8 (Recommended for FOUNDATION Fieldbus) - (supplied loose without mating female plug) (Notes 5, 13)					U1
Fieldbus M12x1 (Recommended for PROFIBUS PA) - (supplied loose without mating female plug) (Notes 5, 13)					U2
Harting Han- straight entry (Notes 4, 13)					U3
Harting Han – angle entry (Notes 4, 13)					U4

- Note 1: Suitable for oxygen service
- Note 2: Not available with sensor code A and B
- Note 3: Select type in additional ordering code
- Note 4: Not available with Electronic Housing code Z, R, G
- Note 5: Not available with Electronic Housing code P, E and K
- Note 6: Not available with Process flanges/adapters code D, E, G, H, Q, T, M, S, U, V
- Note 7: Not available with Process flanges/adapters code D, E, G, H, M, S, U, V
- Note 8: Not available with Process flanges/adapters code A, B, G, H, Q, T, M, S, U, V
- Note 9: Not available with Process flanges/adapters code A, B, G, H, Q, T, U, V
- Note 10: Not available with Process flanges/adapters code A, B, D, E, Q, T, M, S, U, V
- Note 11: Not available with Process flanges/adapters code A, B, D, E, Q, T, M, S
- Note 12: Not available with PROFIBUS PA and FF output code 2 or 3
- Note 13: Not available with Electronic housing code U, S, T, V, H, M, L, N, D, C, A, B, J, Y
- TM Hastelloy is a Cabot Corporation trademark
- Monel is an International Nickel Co. trademark
- TM Viton is a Dupont de Nemour trademark
- ™ Galden is a Montefluos trademark
- ™ Halocarbon is a Halocarbon Products Co. trademark

Standard delivery items (can be differently specified by additional ordering code)

- Adapters supplied loose
- Plug on axis of horizontal connection flange; nothing for vertical connection blind flange (no drain/vent valves)
- General purpose (no electrical certification)
- No meter/display, no mounting bracket, no surge protection
- English manual and labels
- Configuration with kPa and deg. C units
- No test, inspection or material traceability certificates

THE SELECTION OF SUITABLE WETTED PARTS AND FILLING FLUID FOR COMPATIBILITY WITH THE PROCESS MEDIA IS A CUSTOMER'S RESPONSIBILITY, IF NOT OTHERWISE NOTIFIED BEFORE MANUFACTURING.

BASIC ORDERING INFORMATION model 264PS 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 – 1st to 5th (0.0750/	2 6 4 F	S X S X	X	Х	Coi
Gauge Pressure Transmi	tter – BASE ACCURACY (0.075%					
SENSOR - Span limits -				_			
0.05 and 1kPa	0.5 and 10mbar	0.2 and 4inH ₂ O		A			
0.14 and 4kPa	1.4 and 40mbar	0.56 and 16inH ₂ O		B			
0.27 and 16 kPa	2.7 and 160mbar	1.08 and 64inH ₂ O		E			
0.4 and 40kPa	4 and 400mbar	1.6 and 160inH ₂ O		F			
0.65 and 65kPa	6.5 and 650mbar	2.6 and 260inH ₂ O		G			
1.6 and 160kPa	16 and 1600mbar	6.4 and 642inH ₂ O		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			
se code - 7 th character							
aphragm material / Fill	fluid (wetted parts) - 8th	h character					
AISI 316 L ss		Silicone oil	(Note 2)	S			
Hastelloy C276™ (on AIS	I seat)	Silicone oil		NACE H			
Hastelloy C276™		Silicone oil		NACE K			
Monel 400™		Silicone oil	(Note 2)	NACE M			
AISI 316 L ss gold plated	I	Silicone oil	(Note 2)	8			
Tantalum		Silicone oil	(Note 2)	NACE T			
AISI 316 L ss		Inert fluid - Galden	(Notes 1, 2)	A			
Hastelloy C276™ (on Als	SI seat)	Inert fluid - Galden	(Notes 1, 2)	NACE B			
Hastelloy C276™		Inert fluid - Galden	(Notes 1, 2)	NACE F			
Monel 400™		Inert fluid - Galden	(Notes 1, 2)	NACE C			
AISI 316 L ss gold plated	I	Inert fluid - Galden	(Notes 1, 2)	9			
Tantalum		Inert fluid - Galden	(Notes 1, 2)	NACE D			
AISI 316 L ss		Inert fluid - Halocarbon	(Notes 1, 2)	L			
Hastelloy C276™ (on Als	SI 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			
AISI 316 L ss gold plated	I	Inert fluid - Halocarbon	(Notes 1, 2)	1			
Tantalum		Inert fluid - Halocarbon	(Notes 1, 2)	NACE 5			
	s material and connecti	on (wetted parts) – 9th character					
AISI 316 L ss (Horizontal	connection)	1/4 - 18 NPT-f direct (7/16 - 20 U	JNF U.S. drilling)	NACE	Α		
AISI 316 L ss (Horizontal	connection)	1/2 - 14 NPT-f through adapter	(7/16 - 20 UNF U.S. drilling)	NACE	В		
Hastelloy C276™ (Horizo	ntal connection)	1/4 - 18 NPT-f direct (7/16 - 20 U	JNF U.S. drilling)	NACE	D		
Hastelloy C276™ (Horizo		1/2 - 14 NPT-f through adapter		NACE	Е		
Monel 400™ (Horizontal		1/4 - 18 NPT-f direct (7/16 - 20 U		NACE	G		
Monel 400™ (Horizontal		1/2 - 14 NPT-f through adapter		NACE	Н		
AISI 316 L ss (Vertical co		1/4 - 18 NPT-f direct (7/16 - 20 U	•	NACE	Q		
AISI 316 L ss (Vertical co	,	1/2 – 14 NPT-f through adapter		NACE	T		
Hastelloy C276™ (Vertica	,	1/4 – 18 NPT-f direct (7/16 – 20 U		NACE	M		
Hastelloy C276™ (Vertica		¹ / ₂ – 14 NPT-f through adapter		NACE	S		
Monel 400™ (Vertical cor		1/4 – 18 NPT-f direct (7/16 – 20 U		NACE	U		
Monel 400™ (Vertical cor		1/2 – 14 NPT-f through adapter		NACE	V		
olts/Gasket (wetted par	•	72 11111 1 1 1 1 1 1 1 day 1 daaptor	(718 20 014 0.0. 01111119)	10.02	•		
AISI 316 ss		Viton™				1	
AISI 316 ss		PTFE	(Note 1)			2	
AISI 316 ss (NACE) - (MY	NP = 16MPa)	Viton™		NACE		3	
AISI 316 ss (NACE) - (M		PTFE	(Note 1)	NACE		4	
Alloy steel (NACE)	,	Viton™		NACE		8	
Alloy steel (NACE)		PTFE	(Note 1)	NACE		9	
ousing material and ele	ctrical connection – 11th	h character					
Aluminium alloy (Barrel ve	ersion)	¹ / ₂ – 14 NPT				Α	
Aluminium alloy (Barrel ve		M20 x 1.5 (CM 20)				В	
Aluminium alloy (Barrel ve	,	Pg 13.5				D	
Aluminium alloy (Barrel ve		1/2 GK				C	
Aluminium alloy (Barrel ve		Harting Han connector	(general purpose only)	(Note 3)		E	
Aluminium alloy (Barrel ve		Fieldbus connector	(general purpose only)	(Note 3)		G	
Aluminium alloy copper-f		1/2 – 14 NPT	(Scholar Parpose of lly)	(14010 0)		Н	
		M20 x 1.5 (CM 20)					
CONTRACTOR OF THE STREET, THE		Pg 13.5				N	
		1/2 GK				M	
Aluminium alloy copper-f			(goneral aurea)	(NIa+- O)			
Aluminium alloy copper-f Aluminium alloy copper-f			(general purpose only)	(Note 3)		Р	
Aluminium alloy copper-f Aluminium alloy copper-f Aluminium alloy copper-f	ree (Barrel version)	Harting Han connector	/	(Note 3)		R	
Aluminium alloy copper-f Aluminium alloy copper-f Aluminium alloy copper-f Aluminium alloy copper-f	ree (Barrel version) ree (Barrel version)	Fieldbus connector	(general purpose only)	(14010 0)			
Aluminium alloy copper-f Aluminium alloy copper-f Aluminium alloy copper-f Aluminium alloy copper-f AISI 316 L ss (Barrel vers	ree (Barrel version) ree (Barrel version) sion)	Fieldbus connector 1/2 - 14 NPT	(general purpose only)	(14010-0)		S	
Aluminium alloy copper-f Aluminium alloy copper-f Aluminium alloy copper-f Aluminium alloy copper-f AISI 316 L ss (Barrel vers AISI 316 L ss (Barrel vers	ree (Barrel version) ree (Barrel version) sion)	Fieldbus connector	(general purpose only)	(14010-0)		Т	-
Aluminium alloy copper-f Aluminium alloy copper-f Aluminium alloy copper-f Aluminium alloy copper-f AISI 316 L ss (Barrel vers AISI 316 L ss (Barrel vers	ree (Barrel version) ree (Barrel version) sion)	Fieldbus connector 1/2 – 14 NPT M20 x 1.5 (CM20) Pg 13.5	(general purpose only)	(11010 0)			-
Aluminium alloy copper-f Aluminium alloy copper-f Aluminium alloy copper-f Aluminium alloy copper-f AISI 316 L ss (Barrel vers AISI 316 L ss (Barrel vers AISI 316 L ss (Barrel vers	ree (Barrel version) ree (Barrel version) sion) sion) sion)	Fieldbus connector 1/2 – 14 NPT M20 x 1.5 (CM20)	(general purpose only)	(Note of		Т	-
Aluminium alloy copper-f Aluminium alloy copper-f Aluminium alloy copper-f Aluminium alloy copper-f AISI 316 L ss (Barrel vers AISI 316 L ss (Barrel vers AISI 316 L ss (Barrel vers	ree (Barrel version) ree (Barrel version) sion) sion) sion)	Fieldbus connector 1/2 – 14 NPT M20 x 1.5 (CM20) Pg 13.5	(general purpose only) (general purpose only)	(Note 3)		T V	- / J
	ree (Barrel version) ree (Barrel version) sion) sion) sion) sion) sion)	Fieldbus connector 1/2 – 14 NPT M20 x 1.5 (CM20) Pg 13.5 1/2 GK		, ,		T V U	- / J
Aluminium alloy copper-f Aluminium alloy copper-f Aluminium alloy copper-f Aluminium alloy copper-f AISI 316 L ss (Barrel vers AISI 316 L ss (Barrel vers AISI 316 L ss (Barrel vers AISI 316 L ss (Barrel vers	ree (Barrel version) ree (Barrel version) sicon) sicon) sicon) sicon) sicon)	Fieldbus connector 1/2 - 14 NPT M20 x 1.5 (CM20) Pg 13.5 1/2 GK Fieldbus connector	(general purpose only)	, ,		T V U Z	- / J -

ADDITIONAL BASIC ORDERING INFORMATION			X
Output/Additional options – 12th character			
HART digital communication and 4 to 20mA	No additional options	(Notes 4, 5)	Н
HART digital communication and 4 to 20mA	Options requested (to be ordered by "Additional ordering code")	(Note 4)	1
PROFIBUS PA	No additional options	(Notes 4, 5)	Р
PROFIBUS PA	Options requested (to be ordered by "Additional ordering code")	(Note 5)	2
FOUNDATION Fieldbus	No additional options	(Notes 4, 5)	F
FOUNDATION Fieldbus	Options requested (to be ordered by "Additional ordering code")	(Note 5)	3

ADDITIONAL ORDERING INFORMATION for model 264PS

Add one or more 2-digit code(s) after the basic ordering information to select all required options

ASI 312 L ss					ХX	хх	XX	хх	XX	хх	хх	хх	хх	Contid
ASIS 316 L. ss. on flange side top (Note 7) NACE V2 NASIS 316 L. ss. on flange side bottom (Note 7) NACE V3 NASIS 316 L. ss. on flange side bottom (Note 8) NACE V4 NASIS 316 L. ss. on flange side bottom (Note 9) NACE V6 NACE V6	Drain/vent valve (mate	rial and position) (wetted parts)			_									
ATEX Group II Category 1 GD - Intrinsic Safety EEx a ATEX Group II Category 1 GD - Flamprored EEx d ATEX Group II Category 3 GD - Pupe of protection 1°N EEx a. Lesign compliance (Note 12) E3 ATEX Group II Category 3 GD - Type of protection 1°N EEx a. Lesign compliance (Note 12) E4 ATEX Group II Category 3 GD - Type of protection 1°N EEx a. Lesign compliance (Note 12) E5 ATEX Group III Category 3 GD - Type of protection 1°N EEx a. Lesign compliance (Note 12) E5 ATEX Group III Category 3 GD - Type of protection 1°N EEx a. Lesign compliance (Note 12) E5 Canadian Standard Association (CSA) (only 1°-14T)T, MO2 and Pg 13.5 electrical connection) E6 Combined ATEX - Intrinsic Safety and Flameproof E7 NEPSI (China) - Intrinsic Safety Ex la (Not alpost available for FF Output code 3) E7 NEPSI (China) - Intrinsic Safety Ex la (Not alpost available for FF Output code 3) E7 NEPSI (China) - Intrinsic Safety Ex la (Not alpost available for FF Output code 3) E7 NEPSI (China) - Intrinsic Safety Ex la (Not alpost available for FF Output code 3) E7 NEPSI (China) - Intrinsic Safety Ex la (Not alpost available for FF Output code 3) E7 NEPSI (China) - Intrinsic Safety Ex la (Not alpost available for FF Output code 3) E7 NEPSI (China) - Intrinsic Safety Ex la (Not alpost available for FF Output code 3) E7 NEPSI (China) - Intrinsic Safety Ex la (Not alpost available for William available for AlSi housing) Note 12	AISI 316 L ss AISI 316 L ss Hastelloy C276 TM Hastelloy C276 TM Honel 400 TM Monel 400 TM Monel 400 TM	on flange side top on flange side bottom on process axis on flange side top on flange side bottom on process axis on flange side top	(Note 7) (Note 7) (Note 8) (Note 9) (Note 9) (Note 10) (Note 11)	NACE NACE NACE NACE NACE NACE	V2 V3 V4 V5 V6 V7 V8									
ATEX Group il Category 12 GD – Plameproof EEx d ATEX Group il Category 3 GD – Type of protection 1%* EEx nl. design compliance (Note 12) Canadian Standard Association (CSA) (only 1/2–14NPT, M20 and Pg 13.5 electrical connection) E4 Standards Association (CSA) (only 1/2–14NPT, M20 and Pg 13.5 electrical connection) E5 Factory Mutual (FM) approval (only with 1/2–14NPT, M20 and Pg 13.5 electrical connection) E6 Combined ATEX – Intrinsic Safety and Fameproof E7 NEPSI (China) – Flameproof Ex d E7 GOST (Russia) EEx ia (Not available for FF Output code 3) E7 SUPPSI (China) – Flameproof Ex d E7 GOST (Russia) EEx ia E7 GOST GOST EX III EX		ony 1 GD – Intrinsic Safety FEy ia				F1								
ProMeter, Standard calibration (Note 12) D1 ProMeter, Special calibration (Note 12) D2 Analog output indicator inlear O-100% scale (Note 12) D3 Analog output indicator inlear O-100% scale (Note 12) D5 Programmable signal meter and HART configurator (CoMeter) (Note 12) D7 Programmable signal meter and HART configurator (CoMeter) (Note 12) D7 Programmable signal meter and HART configurator (CoMeter) (Note 12) D7 Digital LCD integral display LD Digital LCD integral display LD Digital LCD integral display (Not suitable for AISI housing) AISI 316 L ss B2 For yeal mounting (Not suitable for AISI housing) AISI 316 L ss B2 For wall mounting (Not suitable for AISI housing) AISI 316 L ss B3 For wall mounting (Not suitable for AISI housing) AISI 316 L ss B3 For wall mounting (Not suitable for AISI housing) AISI 316 L ss B3 For wall mounting (Not suitable for AISI housing) AISI 316 L ss B3 For wall mounting (Not suitable for AISI housing) AISI 316 L ss B3 For wall mounting (Not suitable for AISI housing) AISI 316 L ss B3 For wall mounting (Not suitable for AISI housing) AISI 316 L ss B3 For wall mounting (Not suitable for AISI housing) AISI 316 L ss B3 For wall mounting (Not suitable for AISI housing) AISI 316 L ss B3 For wall mounting (Not suitable for AISI housing) AISI 316 L ss B3 For wall mounting (Not suitable for AISI housing) AISI 316 L ss B3 For wall mounting (Not suitable for AISI housing) AISI 316 L ss B3 For wall mounting (Not suitable for AISI housing) AISI 316 L ss B3 For wall mounting (Not suitable for AISI housing) AISI 316 L ss B3 For wall mounting (Not suitable for AISI housing) AISI 316 L ss B3 For wall mounting (Not suitable for AISI housing) AISI 316 L ss B3 For wall mounting (Not suitable for AISI housing) AISI 316 L ss B3 For wall mounting (Not suitable for AISI housing) AISI 316 L ss B3 For wall mounting (Not suitable for AISI housing) AISI 316 L ss B3 For wall mounting (Not suitable for AISI housing) AISI 316 L ss B3 For wall mounting (Not suitable for AISI housing) AISI 316 L ss B3 For wall mountin	ATEX Group II Categora ATEX Group II Categora ATEX Group II Categora Canadian Standard A Standards Australia Factory Mutual (FM) a Combined ATEX - Int NEPSI (China) - Intrin NEPSI (China) - Flam GOST (Russia) EEx GOST (Russia) EEx GOST (Kazakistan) EI GOST (Kazakistan) EI Inmetro (Brazil) EEx ia Inmetro (Brazil) EEX	ory 1/2 GD - Flameproof EEx d ory 3 GD - Type of protection "N" E ssociation (CSA) (only 1/2-14NPT, N SAA (Not Ex ia and Ex n for PROFIBI approval (only with 1/2-14NPT, M20 rinsic Safety and Flameproof sic Safety Ex ia (Not available for FF eproof Ex d a d Ex ia Ex d a (Note 12) I (Note 12)	120 and Pg 13.5 electrical connection US PA and FOUNDATION Fieldbus) and Pg 13.5 electrical connection))		E2 E3 E4 E5 E6 E7 EY EZ W1 W2 W3 W4 W5 W6								
ProMeter, Special calibration (Note 12) D2 Analog output indicator intear 0–100% scale (Note 12) D3 Analog output indicator, special graduation (to be specified for linear scale) (Note 12) D5 Programmable signal meter and HART configurator (CoMeter) (Note 12) D7 Programmable signal meter and HART configurator (CoMeter) (Note 12) D8 Integral LCD Digital LCD integral display L1 Iounting bracket (shape and material) For pipe mounting (Not suitable for AlSI housing) Carbon steel B1 For pipe mounting (Not suitable for AlSI housing) AlSI 316 L ss B2 For wall mounting (Not suitable for AlSI housing) AlSI 316 L ss B3 For wall mounting (Not suitable for AlSI housing) AlSI 316 L ss B4 Flat type for box AlSI housing) AlSI 316 L ss B4 Flat type for box AlSI housing AlSI 316 L ss B5 Surge/Transient Protector (Internal for HART / 4-20mA) Surge/Transient Protector (Internal for HART / 4-20mA) Surge/Transient Protector (External supplied loose for PROFIBUS PA and FOUNDATION Fieldbus only suitable with 1/2-14NPT and M20 electrical connection and with ATEX, FM and CSA certifications, no DUST) Perating manual German	•													
Integral LCD Digital LCD integral display L1 Counting bracket (shape and material) For pipe mounting (Not suitable for AISI housing) Carbon steel B1 B2 B2 B3 B4 B4 B5 B5 B5 B5 B5 B5	ProMeter, Special cal Analog output indicat Analog output indicat Programmable signal	ibration or linear 0–100% scale or, special graduation (to be specific meter and HART configurator (CoN	leter)	(Note 12) (Note 12) (Note 12) (Note 12)			D2 D3 D5 D7							
Digital LCD integral display L1 Counting bracket (shape and material) For pipe mounting (Not suitable for AISI housing) Carbon steel B1 For pipe mounting (Not suitable for AISI housing) AISI 316 L ss B2 For wall mounting (Not suitable for AISI housing) Carbon steel B3 For wall mounting (Not suitable for AISI housing) AISI 316 L ss B4 For wall mounting (Not suitable for AISI housing) AISI 316 L ss B4 For wall mounting (Not suitable for AISI housing) AISI 316 L ss B4 For wall mounting (Not suitable for AISI housing) AISI 316 L ss B4 For wall mounting (Not suitable for AISI housing) AISI 316 L ss B4 For wall mounting (Not suitable for AISI housing) AISI 316 L ss B4 For wall mounting (Not suitable for AISI housing) AISI 316 L ss B4 For wall mounting (Not suitable for AISI housing) AISI 316 L ss B4 For wall mounting (Not suitable for AISI housing) AISI 316 L ss B4 For wall mounting (Not suitable for AISI housing) AISI 316 L ss B4 For wall mounting (Not suitable for AISI housing) AISI 316 L ss B4 For wall mounting (Not suitable for AISI housing) AISI 316 L ss B4 For wall mounting (Not suitable for AISI housing) AISI 316 L ss B4 For wall mounting (Not suitable for AISI housing) AISI 316 L ss B4 For wall mounting (Not suitable for AISI housing) AISI 316 L ss B4 For wall mounting (Not suitable for AISI housing) AISI 316 L ss B4 For wall mounting (Not suitable for AISI housing) AISI 316 L ss B4 For wall mounting (Not suitable for AISI housing) AISI 316 L ss B4 For wall mounting (Not suitable for AISI housing) AISI 316 L ss B4 For wall mounting (Not suitable for AISI housing) AISI 316 L ss B4 For wall mounting (Not suitable for AISI housing) AISI 316 L ss B4 For wall mounting (Not suitable for AISI housing) AISI 316 L ss B4 For wall mounting (Not suitable for AISI housing) AISI 316 L ss B4 For wall mounting (Not suitable for AISI housing) AISI 316 L ss B4 For wall mounting (Not suitable for AISI housing) AISI	Integral LCD		, , , , , , , , , , , , , , , , , , , ,	,										
For pipe mounting (Not suitable for AISI housing) Carbon steel For pipe mounting (Not suitable for AISI housing) AISI 316 L ss For wall mounting (Not suitable for AISI housing) Carbon steel For wall mounting (Not suitable for AISI housing) Carbon steel For wall mounting (Not suitable for AISI housing) Carbon steel For wall mounting (Not suitable for AISI housing) AISI 316 L ss Fo	•	isplay						L1						
For pipe mounting (Not suitable for AISI housing) AISI 316 L ss For wall mounting (Not suitable for AISI housing) Carbon steel For wall mounting (Not suitable for AISI housing) AISI 316 L ss Flat type for box AISI 316 L ss B5 urge Surge/Transient Protector (Internal for HART / 4-20mA) Surge/Transient Protector (External supplied loose for PROFIBUS PA and FOUNDATION Fieldbus only suitable with ½-14NPT and M20 electrical connection and with ATEX, FM and CSA certifications, no DUST) perating manual German Italian French dabels & tag language German Italian French dditional tag plate	Mounting bracket (sha	pe and material)							1					
Surge/Transient Protector (Internal for HART / 4-20mA) Surge/Transient Protector (External supplied loose for PROFIBUS PA and FOUNDATION Fieldbus only suitable with 1/2–14NPT and M20 electrical connection and with ATEX, FM and CSA certifications, no DUST) perating manual German Italian French German Italian French German Italian French German Italian French German Italian To Te Trench Italian To Te Trench Italian To Te Trench Italian It	For pipe mounting For wall mounting For wall mounting	Not suitable for AISI housi (Not suitable for AISI housi	ng) AISI 316 L ss ng) Carbon steel ng) AISI 316 L ss						B2 B3 B4					
Surge/Transient Protector (External supplied loose for PROFIBUS PA and FOUNDATION Fieldbus only suitable with ½-14NPT and M20 electrical connection and with ATEX, FM and CSA certifications, no DUST) perating manual German Italian French German Italian French German Italian French German Italian French German Italian To Tal Italian French Italian French Italian French Italian Italian	Surge									•				
German M1 Italian M2 French M4 abels & tag language German T1 Italian T2 French T2 French T4 dditional tag plate	Surge/Transient Prote Surge/Transient Prote	ector (External supplied loose for PR								S1				
Italian M2 French abels & tag language German T1 Italian T2 French dditional tag plate	Operating manual													
German T1 Italian T2 French T4 dditional tag plate	Italian										M2			
Italian T2 French T4 dditional tag plate	Labels & tag language											•		
o.	Italian											T2		
Laser printing of tag on stainless steel plate	Additional tag plate													
	Laser printing of tag	on stainless steel plate											12	

ADDITIONAL ORDERING INFORMATION for model 264PS	XX	XX	XX	хх	ХХ
Configuration					
Standard - Pressure = inH2O/psi at 20° C; Temperature = deg. F	N2	2			
Standard - Pressure = inH2O/psi at 4° C; Temperature = deg. F	N3				
Standard – Pressure = inH2O/psi at 20° C; Temperature = deg.C	N4	1			
Standard – Pressure = inH2O/psi at 4° C; Temperature = deg. C	N5				
Custom	N6	5			
Preparation procedure					
Oxygen service cleaning (only available with inert fill and PTFE gasket) - Pmax = 12MPa for Galden, 9MPa for Halc	ocarbon; T _{max} =60° C/140° F	P1			
Hydrogen service preparation		P2			
Special services preparation		P4			
Certificates					
Inspection certificate EN 10204-3.1.B of calibration (9-point)			C1		
Certificate of compliance with the order EN 10204-2.1 of instrument design			C6		
Material traceability					
Certificate of compliance with the order EN 10204-2.1 of process wetted parts				H1	
Inspection certificate EN 10204-3.1.B of process wetted parts				НЗ	
Connector					
Fieldbus 7/8 (Recommended for FOUNDATION Fieldbus) - (supplied loose without mating female plug)	(Notes 5, 13)				U1
Fieldbus M12x1 (Recommended for PROFIBUS PA) - (supplied loose without mating female plug)	(Notes 5, 13)				U2
Harting Han- straight entry	(Notes 4, 13)				U3
Harting Han – angle entry	(Notes 4, 13)				U4

- Note 1: Suitable for oxygen service
- Note 2: Not available with sensor code A and B
- Note 3: Select type in additional ordering code
- Note 4: Not available with Electronic Housing code Z, R, G
- Note 5: Not available with Electronic Housing code P, E and K
- Note 6: Not available with Process flanges/adapters code D, E, G, H, Q, T, M, S, U, V
- Note 7: Not available with Process flanges/adapters code D, E, G, H, M, S, U, V
- Note 8: Not available with Process flanges/adapters code A, B, G, H, Q, T, M, S, U, V
- Note 9: Not available with Process flanges/adapters code A, B, G, H, Q, T, U, V
- Note 10: Not available with Process flanges/adapters code A, B, D, E, Q, T, M, S, U, V
- Note 11: Not available with Process flanges/adapters code A, B, D, E, Q, T, M, S
- Note 12: Not available with PROFIBUS PA and FF output code 2 or 3 $\,$
- Note 13: Not available with Electronic housing code U, S, T, V, H, M, L, N, D, C, A, B, J, Y
- TM Hastelloy is a Cabot Corporation trademark
- Monel is an International Nickel Co. trademark
- ™ Viton is a Dupont de Nemour trademark
- TM Galden is a Montefluos trademark
- ™ Halocarbon is a Halocarbon Products Co. trademark

Standard delivery items (can be differently specified by additional ordering code)

- Adapters supplied loose
- Plug on axis of horizontal connection flange; nothing for vertical connection blind flange (no drain/vent valves)
- General purpose (no electrical certification)
- No meter/display, no mounting bracket, no surge protection
- English manual and labels
- Configuration with kPa and deg. C units
- No test, inspection or material traceability certificates

THE SELECTION OF SUITABLE WETTED PARTS AND FILLING FLUID FOR COMPATIBILITY WITH THE PROCESS MEDIA IS A CUSTOMER'S RESPONSIBILITY, IF NOT OTHERWISE NOTIFIED BEFORE MANUFACTURING.

BASIC ORDERING INFORMATION model 264VS Absolute Pressure Transmitter

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

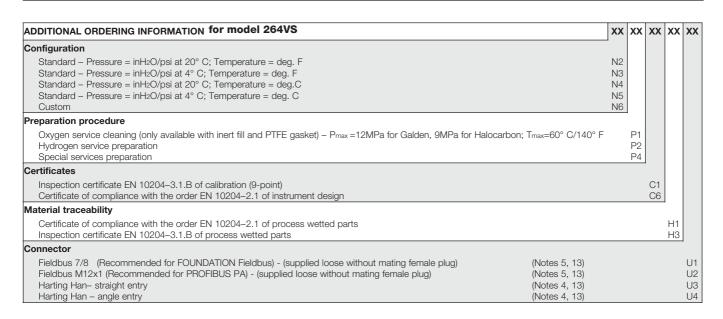
Refer to additional ordering information code and specify one or more codes for each transmitter if additional options are required.

BASE MODEL - 1st to 5th characters		2 6	4 V S	X S	Х	Х	X	X
Absolute Pressure Transmitter - BASE ACCURACY 0.	075%							
SENSOR - Span limits - 6th character				-				
0.27 and 16 kPa 2.7 and 160mbar	2 and 120mmHg			E				
0.67 and 40kPa 6.7 and 400mbar	5 and 300mmHg			F				
1.1 and 65kPa	8 and 480mmHg			G				
2.67 and 160kPa 26.7 and 1600mbar	20 and 1200mmHg			H				
10 and 600kPa	1.45 and 87psi			M				
40 and 2400kPa	5.8 and 348psi			P				
134 and 8000kPa 1.34 and 80bar 2.67 and 16000kPa 2.67 and 160bar	19.4 and 1160psi 38.7 and 2320psi			Q S				
	30.7 and 2020psi							
iaphragm material / Fill fluid (wetted parts) – 8 th Cl	naracter							
AISI 316 L ss	Silicone oil				s			
Hastelloy C276™ (on AISI seat)	Silicone oil			NACE	Н			
Hastelloy C276™	Silicone oil			NACE	K			
AISI 316 L ss	Inert fluid - Galden	(Notes 1, 2)			Α			
Hastelloy C276™ (on AISI seat)	Inert fluid - Galden	(Notes 1, 2)		NACE				
Hastelloy C276™	Inert fluid - Galden	(Notes 1, 2)		NACE	- 1			
AISI 316 L ss	Inert fluid - Halocarbon	(Notes 1, 2)			L			
Hastelloy C276™ (on AISI seat)	Inert fluid - Halocarbon	(Notes 1, 2)		NACE				
Hastelloy C276™ Process flanges/adapters material and connection	Inert fluid - Halocarbon (wetted parts) - 9th character	(Notes 1, 2)		NACE	٢			
AISI 316 L ss (Horizontal connection)		LINETTS drilling)		NACE		٨		
AISI 316 L ss (Horizontal connection) AISI 316 L ss (Horizontal connection)	1/4 - 18 NPT-f direct (7/16 - 20 1/2 - 14 NPT-f through adapter	٥,		NACE		A B		
Hastelloy C276™ (Horizontal connection)	1/4 – 18 NPT-f direct (7/16 – 20			NACE		D		
Hastelloy C276 TM (Horizontal connection)	1/2 – 14 NPT-f through adapter	٥,		NACE		E		
Monel 400™ (Horizontal connection)	1/4 – 18 NPT-f direct (7/16 – 20			NACE		G		
Monel 400 TM (Horizontal connection)	¹ / ₂ – 14 NPT-f through adapter	٥,		NACE		Н		
AISI 316 L ss (Vertical connection)	1/4 – 18 NPT-f direct (7/16 – 20			NACE		Q		
AISI 316 L ss (Vertical connection)	1/2 – 14 NPT-f through adapter			NACE		Ť		
Hastelloy C276 TM (Vertical connection)	1/4 – 18 NPT-f direct (7/16 – 20			NACE		M		
Hastelloy C276 TM (Vertical connection)	1/2 – 14 NPT-f through adapter			NACE		S		
Monel 400™ (Vertical connection)	1/4 – 18 NPT-f direct (7/16 – 20			NACE		Ü		
Monel 400™ (Vertical connection)	1/2 – 14 NPT-f through adapter			NACE		V		
Bolts/Gasket (wetted parts) – 10th character		<u> </u>						
AISI 316 ss	Viton™						1	
AISI 316 ss	PTFE	(Note 1)					2	
AISI 316 ss (NACE) - (MWP = 16MPa)	Viton™			NACE			3	
AISI 316 ss (NACE) - (MWP = 16MPa)	PTFE	(Note 1)		NACE			4	
Alloy steel (NACE)	Viton™			NACE			8	
Alloy steel (NACE)	PTFE	(Note 1)		NACE			9	
Housing material and electrical connection – 11th cl								
Aluminium alloy (Barrel version)	1/2 – 14 NPT							<u>A</u>
Aluminium alloy (Barrel version)	M20 x 1.5 (CM 20)							В
Aluminium alloy (Barrel version)	Pg 13.5							D
Aluminium alloy (Barrel version)	1/2 GK	(gaparal zumz z z z z z l	/A	loto O				С
Aluminium alloy (Barrel version)	Harting Han connector	(general purpose only)		Note 3)				E
Aluminium alloy (Barrel version)	Fieldbus connector	(general purpose only)	(1)	Note 3)				G
Aluminium alloy copper-free (Barrel version)	1/2 – 14 NPT							Н
Aluminium alloy copper-free (Barrel version)	M20 x 1.5 (CM 20)							L N
Aluminium alloy copper-free (Barrel version)	Pg 13.5							
Aluminium alloy copper-free (Barrel version)	1/2 GK Harting Han connector	(general purpose only)	//	Note 3)				M P
	Harting Han connector Fieldbus connector	(general purpose only) (general purpose only)	,	,				r R
Aluminium alloy copper-free (Barrel version)		(general purpose only)	(1)	Note 3)				K S
Aluminium alloy copper-free (Barrel version)								
Aluminium alloy copper-free (Barrel version) AISI 316 L ss (Barrel version)	¹ / ₂ – 14 NPT							
Aluminium alloy copper-free (Barrel version) AISI 316 L ss (Barrel version) AISI 316 L ss (Barrel version)	¹ / ₂ – 14 NPT M20 x 1.5 (CM20)							T
Aluminium alloy copper-free (Barrel version) AISI 316 L ss (Barrel version) AISI 316 L ss (Barrel version) AISI 316 L ss (Barrel version)	¹ / ₂ – 14 NPT M20 x 1.5 (CM20) Pg 13.5						١	V
Aluminium alloy copper-free (Barrel version) AISI 316 L ss (Barrel version)	¹ / ₂ – 14 NPT M20 x 1.5 (CM20) Pg 13.5 ¹ / ₂ GK	(general purpose only)	/N	Jote 31			\ (V U
Aluminium alloy copper-free (Barrel version) AISI 316 L ss (Barrel version)	1/2 – 14 NPT M20 x 1.5 (CM20) Pg 13.5 1/2 GK Fieldbus connector	(general purpose only)	1)	Note 3)			\ \ 2	V U Z
Aluminium alloy copper-free (Barrel version) AISI 316 L ss (Barrel version) Aluminium alloy (DIN version)	1/2 – 14 NPT M20 x 1.5 (CM20) Pg 13.5 1/2 GK Fieldbus connector M20 x 1.5 (CM 20)	(general purpose only)	1)	Note 3)			\ - - -	V U Z J
Aluminium alloy copper-free (Barrel version) AISI 316 L ss (Barrel version) Aluminium alloy (DIN version) Aluminium alloy (DIN version)	1/2 – 14 NPT M20 x 1.5 (CM20) Pg 13.5 1/2 GK Fieldbus connector M20 x 1.5 (CM 20) Pg 13.5	(general purpose only) (general purpose only)	·	,			\ - - - -	V U Z J Y
Aluminium alloy copper-free (Barrel version) AISI 316 L ss (Barrel version) Aluminium alloy (DIN version) Aluminium alloy (DIN version) Aluminium alloy (DIN version)	1/2 – 14 NPT M20 x 1.5 (CM20) Pg 13.5 1/2 GK Fieldbus connector M20 x 1.5 (CM 20)	(general purpose only)	·	Note 3)			\ - - - -	V U Z J
Aluminium alloy copper-free (Barrel version) AISI 316 L ss (Barrel version) Aluminium alloy (DIN version) Aluminium alloy (DIN version) Aluminium alloy (DIN version) Dutput/Additional options – 12 th character	1/2 – 14 NPT M20 x 1.5 (CM20) Pg 13.5 1/2 GK Fieldbus connector M20 x 1.5 (CM 20) Pg 13.5 Harting Han connector	(general purpose only) (general purpose only)	1)	Note 3)			\ - - - -	V U Z J Y
Aluminium alloy copper-free (Barrel version) AISI 316 L ss (Barrel version) Aluminium alloy (DIN version) Aluminium alloy (DIN version) Aluminium alloy (DIN version) Dutput/Additional options – 12th character HART digital communication and 4 to 20mA	1/2 – 14 NPT M20 x 1.5 (CM20) Pg 13.5 1/2 GK Fieldbus connector M20 x 1.5 (CM 20) Pg 13.5 Harting Han connector	(general purpose only) (general purpose only) (general purpose only)	(Notes 4	Note 3)			\ - - - -	V U Z J Y
Aluminium alloy copper-free (Barrel version) AISI 316 L ss (Barrel version) Aluminium alloy (DIN version) Aluminium alloy (DIN version) Aluminium alloy (DIN version) Dutput/Additional options – 12th character HART digital communication and 4 to 20mA HART digital communication and 4 to 20mA	1/2 – 14 NPT M20 x 1.5 (CM20) Pg 13.5 1/2 GK Fieldbus connector M20 x 1.5 (CM 20) Pg 13.5 Harting Han connector No additional options Options requested (to be order	(general purpose only) (general purpose only)	(Notes 4)	Note 3)			\ - - - -	V U Z J Y
Aluminium alloy copper-free (Barrel version) AlSI 316 L ss (Barrel version) Aluminium alloy (DIN version) Aluminium alloy (DIN version) Aluminium alloy (DIN version) Dutput/Additional options – 12 th character HART digital communication and 4 to 20mA PROFIBUS PA	1/2 – 14 NPT M20 x 1.5 (CM20) Pg 13.5 1/2 GK Fieldbus connector M20 x 1.5 (CM 20) Pg 13.5 Harting Han connector No additional options Options requested (to be order No additional options	(general purpose only) (general purpose only) (general purpose only) general purpose only) red by "Additional ordering code")	(Notes 4) (Notes 4) (Notes 4)	Note 3) 4, 5)			\ - - - -	V U Z J Y
Aluminium alloy copper-free (Barrel version) AISI 316 L ss (Barrel version) Aluminium alloy (DIN version) Aluminium alloy (DIN version) Aluminium alloy (DIN version) Dutput/Additional options – 12th character HART digital communication and 4 to 20mA HART digital communication and 4 to 20mA	1/2 – 14 NPT M20 x 1.5 (CM20) Pg 13.5 1/2 GK Fieldbus connector M20 x 1.5 (CM 20) Pg 13.5 Harting Han connector No additional options Options requested (to be order No additional options	(general purpose only) (general purpose only) (general purpose only)	(Notes 4)	Note 3)			\ - - - -	V U Z J Y

ADDITIONAL ORDERING INFORMATION for model 264VS

Add one or more 2-digit code(s) after the basic ordering information to select all required options

				ХХ	хх	хх	хх	хх	хх	XX	хх	хх	Cont
Drain/vent valve (mater	ial and position) (wetted parts)				,,,,	,,,	,,,,		,,,,	,,,,	,,,	,,,,	00111
AISI 316 L ss AISI 316 L ss AISI 316 L ss AISI 316 L ss Hastelloy C276 TM Hastelloy C276 TM Hastelloy C276 TM Monel 400 TM Monel 400 TM Monel 400 TM Morel 400 TM Electrical certification	on process axis on flange side top on flange side bottom on process axis on flange side top on flange side bottom on process axis on flange side top on flange side top	(Note 6) (Note 7) (Note 7) (Note 8) (Note 9) (Note 9) (Note 10) (Note 11) (Note 11)	NACE NACE NACE NACE NACE NACE NACE NACE	V1 V2 V3 V4 V5 V6 V7 V8 V9									
ATEX Group II Catego ATEX Group II Catego ATEX Group II Catego Canadian Standard As Standards Australia S Factory Mutual (FM) al Combined ATEX - Intr	ix ia ix d (Note 12) (Note 12)	o and Pg 13.5 electrical connection PA and FOUNDATION Fieldbus) d Pg 13.5 electrical connection)	n)		E1 E2 E3 E4 E5 E6 E7 EY EZ W1 W2 W3 W4 W5 W6								
ProMeter, Standard ca ProMeter, Special cali Analog output indicate Analog output indicate Programmable signal		er)	(Note 12) (Note 12) (Note 12) (Note 12) (Note 12) (Note 12)			D1 D2 D3 D5 D7 D8							
Integral LCD Digital LCD integral dis	splay						L1						
For wall mounting Flat type for box	(Not suitable for AISI housing (Not suitable for AISI housing (Not suitable for AISI housing (Not suitable for AISI housing	AISI 316 L ss Carbon steel						B1 B2 B3 B4 B5					
Surge Surge/Transient Prote Surge/Transient Prote	ctor (Internal for HART / 4-20mA) ctor (External supplied loose for PROF 7T and M20 electrical connection and	FIBUS PA and FOUNDATION Field							S1				
Operating manual German Italian French										M1 M2 M4			
abels & tag language German Italian French											T1 T2 T4		
Additional tag plate Laser printing of tag o	n stainless steel plate											12	



- Note 1: Suitable for oxygen service
- Note 2: Not available with sensor code E
- Note 3: Select type in additional ordering code
- Note 4: Not available with Electronic Housing code Z, R, G
- Note 5: Not available with Electronic Housing code P, E and K
- Note 6: Not available with Process flanges/adapters code D, E, G, H, Q, T, M, S, U, V
- Note 7: Not available with Process flanges/adapters code D, E, G, H, M, S, U, V
- Note 8: Not available with Process flanges/adapters code A, B, G, H, Q, T, M, S, U, V
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- Note 12: Not available with PROFIBUS PA and FF output code 2 or 3
- Note 13: Not available with Electronic housing code U, S, T, V, H, M, L, N, D, C, A, B, J, Y
- ™ Hastelloy is a Cabot Corporation trademark
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- Adapters supplied loose
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2600T Pressure Transmitters

Model 264DS, 264PS, 264VS

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