













ABB 266 SERIES PRESSURE TRANSMITTERS



266 Base Model Selection

Digits 1-2-3		Digits 4-5-6										
<div style="background-color: #0056b3; color: white; padding: 10px; text-align: center; font-size: 2em; font-weight: bold;">266</div>												
		Differential	DP Absolute	Pressure Gauge	Pressure Absolute	Multisensor (3 Process Variables)	Multivariable (Flow & Level)					
BASE ACCURACY		0.06%	0.04%	0.04%	0.06%	0.04%	0.06%	0.04%	0.06%	0.04%	0.06%	0.04%
	Standard Version	DSH	MST	RST	HSH	GST	NSH	AST	JSH	JST	CSH	CST
	Remote Diaphragm Seal	DRH	MRT	RRT	HRH	GRT	NRH	ART	JRH	JRT	CRH	CRT

WirelessHART 266 Pressure Transmitters

Features

- Simple wireless configuration through HMI, ABB Handheld or DTM
- Standard, widely available Tadiran Li-ion Battery
- Configurable update rates 4s - 60 minutes
- Advanced low power electronics extends battery life
- IP66 class rated
- ATEX certified (Zone 1, EX ia IICGa T4)
- Full set of diagnostics and DTM's for seamless integration into ABB 800xA control system or 3rd party DCS
- Energy harvesting options to enhance battery life under harsh network operating conditions

The ABB WirelessHART 266 pressure transmitter enables the easy addition of pressure measurement points throughout your operation. You can now monitor hard-to-reach locations and keep your employees out of dangerous and hazardous areas.

The WirelessHART 266 pressure transmitter delivers a very cost-effective and reliable solution to monitor your process assets. Shorten installation times by eliminating complex wired infrastructures and lower overall implementation costs of process measurement with ABB wireless devices featuring WirelessHART communications.

ABB's wireless devices are extremely efficient due to their unique energy management based on an ultra low power design.

The significantly extended battery life increases the reliability of your network. Much faster update rates are possible. The battery replacement intervals can be tremendously increased.



WirelessHART

JDF200 Field Indicator

ABB's JDF200 universal field indicator is compatible with all 4-20mA, 2-wire systems and therefore it is applicable in all industry sectors where flow, pressure, level, temperature, current and heat transfer rate data from your transmitter.



It features a multilingual, multi-line display that makes it simple to use.

Thanks to its rugged construction, vibration and corrosion resistance, as well as explosion proof certification, the JDF200 can be used all around your plant.





ABB 266 SERIES PRESSURE TRANSMITTERS



ABB Pressure Product Line



Differential Pressure (DP)



Gauge & Absolute Pressure



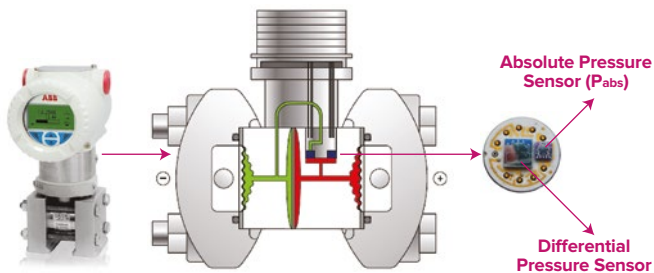
Wireless Pressure



Multivariable Transmitter
Flow Measurement with Differential Pressure & Temperature

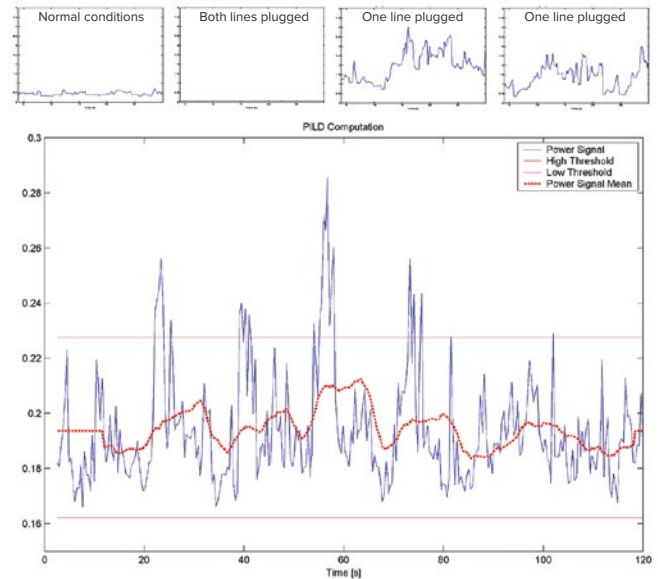
Features

- 2 in 1 solution - measurement of DP and P_{abs} simultaneously (Integrated safety feature and additional monitoring)
- Measuring spans: 0.5mbar to 100bar (DP) & 0.5mbar to 1050bar (P)
- Improved performance: 0.04% of calibrated span (0.025% accuracy optional)
- Improved stability: 0.15% of URL for 10 years
- Compact stainless steel housing (IP67 with IP68 on request)
- PILD: Plugged Impulse Line Diagnostic
- Innovative HMI/LCD with 'Through The Glass' technology and 'Easy Setup'
- Large variety of approvals/certification available (ATEX, FM, IEC, GOST, DNV, 2.1 - 3.1 acc. EN 10204)
- FAST delivery service
- Multivariable transmitter



Plugged Impulse Line Diagnostic (PILD)

Based on the analysis of the variation of the natural and unique pressure noise signal of the plant. The PILD diagnostics measure the background plant noise. Deviations from this "base line" noise indicate that an impulse line may be blocked.



HMI - Through The Glass (TTG) Technology

The innovative TTG (Through The Glass) technology allow users to configure the instruments in hazardous areas without powering the instrument down or removing the windowed front cover. This saves a lot of time, highlighting ABB's commitment to satisfy users' need for simplicity and flexibility.

- The 266 was the first pressure transmitter with TTG technology
- Common user interface for all products across ABB instrumentation





ABB 266 SERIES PRESSURE TRANSMITTERS



Pressure Transmitters with Remote Seals

Protect transmitter from:

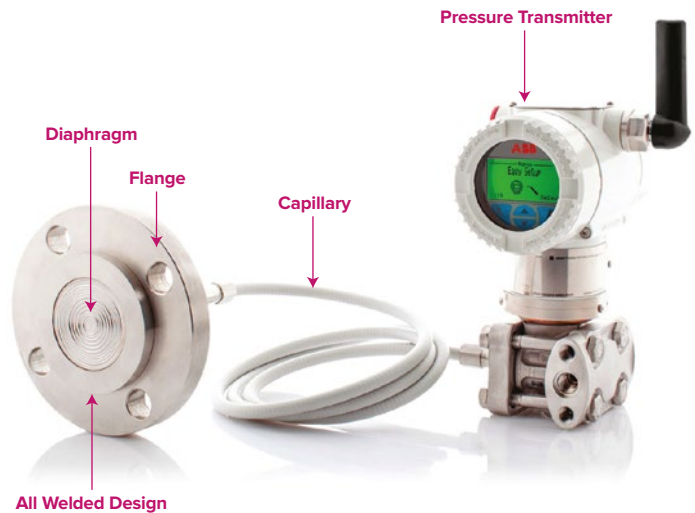
- High temperatures, up to 375°C with capillaries filled with high temperature oil
- Corrosive fluids
- Fluids with high viscosity
- Fluids with a tendency towards crystallisation or polymerisation

Useful for:

- Prevention of deposits in the process connections
- To adapt to different process connection methods/standards
- Decoupling of the transducer in applications with severe vibration

Diaphragm material (wetted parts):

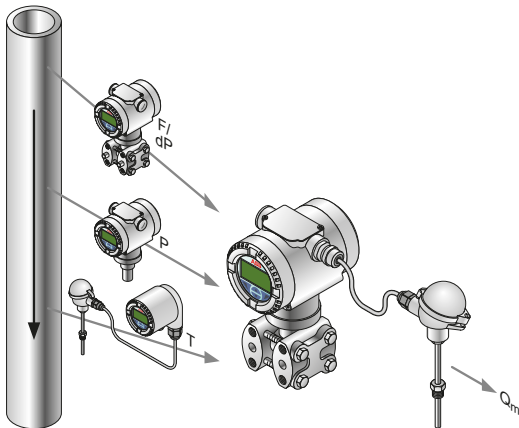
- | | |
|-----------------------------------------|----------------------|
| • Stainless Steel 316L | • Tantalum |
| • Hastelloy C276 | • Diaflex |
| • Hastelloy C2000 | • Inconel 625 |
| • Stainless Steel teflon coated | • Others as specials |
| • Stainless Steel gold plated | |
| • Super Duplex UNS S32750 to ASTM SA479 | |



Multivariable Transmitters of 266 Series

Ideal for mass flow application

Reliable solution for high pressure direct mass measurement. The unique combination of several sensor systems in a single device permits simultaneous measurement of differential pressure, absolute pressure and process temperature via an external sensor.



DP and P_{abs} values accessible via digital signals
HART protocol, Modbus.

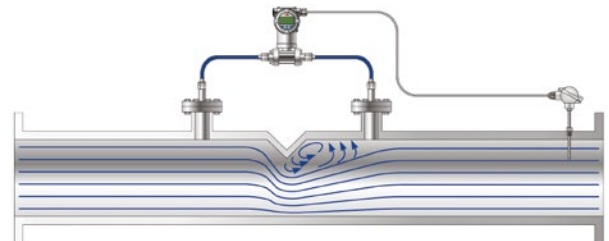
Also used for DP flow measurement it calculates the mass flow of gas, steam and liquid with dynamic compensation. The measurement accuracy improves by 1 to 2%. Due to the available draft range this transmitter is tailored for use with the cheap and easy to install averaging pitot tubes.

Push down cost, increase safety

Less process penetrations means less potential leaking points and improved safety.

Mass flow measurement

Mass flow of gas, steam, liquid and standard volume flow of gas in accordance with AGA3, AGA8, GERG 88 and DIN EN ISO 5167.



Highest accuracy is achieved through:

- Dynamic flow correction with continuous calculation of Reynold's number and flow coefficient
- Correction of material-dependent thermal size changes
- Linearisation of the primaries

Shorten maintenance time

In case of changes in the process the 'easy setup' feature, carried out with local indicator, hand held terminal or Device Type Manager (DTM) allows adjustment to the instrument within shortest possible time.

Most served industry segments

- Oil & Gas, Chemical and Power

Level measurement

- Boiler drum level
- Volume of tanks with any shape
- Tank content in mass units
- Level in open and pressurised tanks
- Improves the hydrostatic level measurement due to density correction





ABB 261 SERIES PRESSURE TRANSMITTERS



261 Base Model Selection

Digits 1-2-3	Digits 4-5	
261	 P Gauge	 P Absolute
<small>BASE ACCURACY</small>	0.10%	0.10%
 Standard Version	GS	AS
 Remote Diaphragm Seal	GR	AR
 Direct Mount Flange	GC	AC
 Market Specific Connections	GG GJ GM GN	AG AJ AM AN



GG/AG: Transmitter with dairy thread, SMS, RJT, tri-clamp, varivent for pipes, Neumo-Biocontrol & DRD flange, connection per ASME
GJ/AJ: Pressure transmitter with inline remote seal and tri-clamp connection per ASME
GM/AM: Transmitter with wafer remote seal and internal diaphragm
GN/AN: Front bonded diaphragm

261 Pressure Transmitters

The quality cost-effective solution. The 261 series is the result of our focus on essential features for pressure and level measurement.

Features

- Measuring spans from 3 mbar to 600 bar
- Base accuracy $\pm 0.1\%$
- Turn down 1:20
- Innovative display / HMI
- Sealed electronic unit
- Ingress protection IP67 (on request IP68)
- Base: 'piezo' silicon pressure sensors
- Compact & extremely robust housing out of stainless steel 316L
- Gauge and absolute pressure measurement
- Designed to meet both CIP and SIP applications
- Output signal 4...20mA with HART digital communication
- Conforms to SIL2 acc. to IEC 61508 / IEC 61511

Wide choice of process connections to suit multiple installations in various industry segments, e.g:

- **Threaded connections:** e.g. for power or paper/pulp industries
- **Flanged connections:** e.g. for the chemical industry
- **Hygienic connections:** e.g. for food and beverages industries
- **Remote seal connections:** e.g. for high temperatures, corrosive fluids, high viscosity fluids with a tendency towards crystallisation or polymerisation



261 Gx/Ax - Ranges Overload

Smallest ranges	Highest overload
3...60 mbar	10 bar
20...400 mbar	10 bar
125...2500 mbar	5 bar
0.5...10 bar	20 bar
1.5...30/40 bar	60/80 bar
5...100 bar	200 bar
30...600 bar	900 bar

Turn down ratio: 1:20



Served Industries

- Water and wastewater
- Food and beverage
- Pharmaceutical
- Chemical
- Pulp and paper





ABB 261 CONNECTIONS FOR EVERY INDUSTRY



261GC/AC/GR/AR - Chemical Industry

Features

- Process connections for chemical and petrochemical flanges DIN / ASME with flush/extended diaphragms
- Industry-specific diaphragm materials
- SIL2-classified accreditation to IEC 61508/61511
- Stainless steel housing
- Ex i intrinsically safe (ATEX)
- NACE-certified materials
- Measuring ranges: 60mbar to 100bar



261GS/AS/GC/AC - Water & Wastewater Industry

Features

- Flange connections for level measurement
- Rugged, compact housing (IP67)
- 3A sanitary approval (drinking water)
- Wetted parts made of Stainless Steel 316L
- Completely welded design without internal sealing



261 PMC Fitting for Pulp & Paper Industry

Features

New market specific PMC 1" and 1.5" process connections are now included in the standard portfolio.



261GG/261AG - Food & Beverage Industry

Features

Excellent measuring accuracy under challenging requirements as a result of:

- Separating diaphragm with optimised design
- Accurate and reliable sensor technology
- In-house production of the F&B process connection with special shape
- Temperature balancing of the complete transmitter with process connection
- Continuous filling without internal separating diaphragm



261 All-Purpose Connection - Other Industries

Features

- Various standard process connections available
- Available with remote seals (flush or extended diaphragm)
- High temperature resistance 120°C / 180°C / 375°C
- Various filling fluids (standard, vacuum, high temperature)
- Harting connector for power plants
- Measuring span: 3mbar to 600bar





ABB PRESSURE CONFIGURATION TOOLS



Pressure Transmitter Configuration Tools



NEW - ABB Field Information Manager



Other FDT frame applications
e.g. PACTware, FieldCare



Asset Vision Basic Software



Any third party frame apps with implemented 2600T DD from ABB



Handheld Terminals (HART Transmitters)



Menu control via 4 keys including 'Easy Setup'

DHH805 - Handheld HART Communicator

Features

- Fast power on: 10 seconds
- Backlight display allows you to work even in remote areas
- Forget expensive license renewal - DHH805 works with HART® DDs that you can download free of charge directly from the HART-Foundation website
- 2GB SD memory will allow you to store as many HART® DDs as needed (up to 1000) along with 200 separate device configuration files



The ABB DHH805 is a universal portable configuration tool that allows easy parameterisation of ABB and third party HART® instruments. Every HART® field device may be configured, polled and trimmed using the DHH805. As a full function HART® communicator, the DHH805 supports universal, common practice and device specific commands for commissioning, configuration and maintenance operations. The DHH805 provides a full view of device info in a 6 line easy to read display, allowing up to 100 hours of continuous use before recharging.



Field Information Manager (FIM)

Features

- Online within less than 3 minutes
- Same FDI (Field Device Integration) basic component assures interoperability between tools and manufacturers
- Online and offline configuration
- Generic HART device package for all HART devices
- For installed base: EDD Import
- Documentation of device data and parameters
- User interface option to optimise either for mouse or touch display
- HART Device Management supporting different Windows device types including tablets and PCs
- Catalogue update not required
- Plug and play for point-to-point diagnostics and maintenance of HART devices supporting NAMUR NE 107
- Device type template support
- Comprehensive device monitoring views to visualise online data with state of the art indicators, gauges and charts
- Configuration management by exporting device configuration for documentation as PDF files

ABB's Field Information Manager (FIM) is a device management tool that makes the configuration, commissioning, diagnostic inspection and maintenance of Instrumentation easier and quicker than ever before.

It is the first device management tool that employs FDI (Field Device Integration) technology and can be quickly installed on PC, laptop or tablet.



Device bar concept

- Navigate between device views
- Toggle between different devices and views without navigating in lists or trees

FIM 'One Touch' device connection

1. Install FIM on Tablet, Laptop or PC
2. Connect HART Modem (USB, Bluetooth)
3. FIM is scanning and showing automatically connected devices





W H Good Automation Ltd
Carrs Industrial Estate
Haslingden
Rossendale
Lancashire
BB4 5JT

Tel 01706 216667
Email instruments@whgood.co.uk
Web whgood.co.uk