



MEASUREMENT & ANALYTICS | INDIA CHANNEL PARTNER CONFERENCE | 15 – 16 JULY 2025

FID PORTFOLIO UPDATE: TRENDS & GROWTH INITIATIVES

ENGINEERED
TO OUTRUN

ABB Product Line FID

The management team



EUGENIO VOLONTERIO

Global Product Line Manager
(FID)

Tremezzina, IT



LORENZO GAZZOLA
Global Product Manager, IT

CARLOS RAMOS
Global Technical Product
Manager, DE

ROBERTO PARAPETTI
Global Market Manager, IT



GURUPRASAD SOSALE
Global Product Manager, DE

HENDRIK DECKERT
Global Technical Product
Manager, DE

PIETRO MANSUETI
Global Market Manager, DE



**SREEKANTH
MADHAVASHERRY
SREENIVASAN**

Global Product Manager &
Market Manager, US

ABB Product Line FID

We have been a global player in providing solutions for a variety of industrial requirements



2 Pressure Technologies

Inductive and Piezoresistive

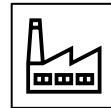


80k+
Years of Experience



5 Level technologies

Magnetostrictive,
Ultrasonic, Laser, Guided
Wave Radar, Magnetic



7
Factories



Temperature sensors & Transmitters

2 main lines
Transmitters and sensors



5M+
Installed base globally



>300.000
Combined deliveries per year



1 Tremezzina, IT
(P)

2 Minden, Germany
(T)

3 Bartlesville, USA
(P+T+L)

4 Dammam, Saudi
Arabia (P+T)

5 Bangalore,
India (P+T)

6 Shanghai,
China (P+T+L)

7 Quebec ,
Canda (L)

FID growth

Main Strategy Summary

PRESSURE

Less is more - A simplified product portfolio for more customer benefits

- Product Portfolio Recasting (PPR): portfolio redesign to **enable growth** by projects and target segments:
 - P-100 Water & Waste, OEMs, Machine builders. - **released**
 - P-300 to increase competitiveness in O&G and projects – **introduction to be boosted**
 - P-500 for chemical and high tier industries
- APL as priority one for FID
- India further localizations

TEMPERATURE

Future proofing a legacy - Fit for global markets and target segments

- Extend certifications for global markets and segments - **released**
- Deploy and promote dual compartment housing
- Transmitters in Enclosure for global markets with modular certification approach
- APL as hockey puck form factor
- Growth sensor business by regional partnerships.
- Growth OEM market by partnerships

LEVEL

Close the gaps - Development roadmap to enable growth and performance

- **Close the gap** in white spaces of OPR and Vibrating Fork Switch
- **China/India expansion growth** in Ultrasonic & GWR transmitter.
- Portfolio updates to better fit with target segments
- **MLG and Switches** (point level switches) more competitive offering by localizations.
- **W&WW, F&B & solids market** - Laser & Ultrasonic transmitters - penetration with positioning Laser products
- **Leverage the K-Tek brand**

PRESSURE, “LESS IS MORE”

ABB P-series: A simplified enhanced
product portfolio

Our Pressure portfolio evolution

New and improved P-series
of pressure transmitters

A new and improved series of
pressure transmitters for all market
needs and industries



1. **P-100 Essential:** Already on the market
2. **P-300 All-Rounder:** Released in the market
3. **P-500 Top Tier:** Coming soon!!



The new P-series

Positioning

The newly shaped ABB P-Series delivers an industry driven product portfolio offering throughout:

- Pressure Tiers models harmonization
- Improved overall performance and reliability
- “State-of-art” technology (Bluetooth, APL)
- Digitally enabled diagnostic (DAD, QR code)
- Simplification and clarity (Hart is Hart)
- Technology update

Tiers Positioning Outlook

- **P-100 “The Essential”**: Water & Waste, Power and Other industries
- **P-300 “The All-Rounder”**: Power, Oil & Gas Up-Mid stream
- **P-500 “The Top-Tier”**: Chemical, Refining, Oil & Gas Downstream

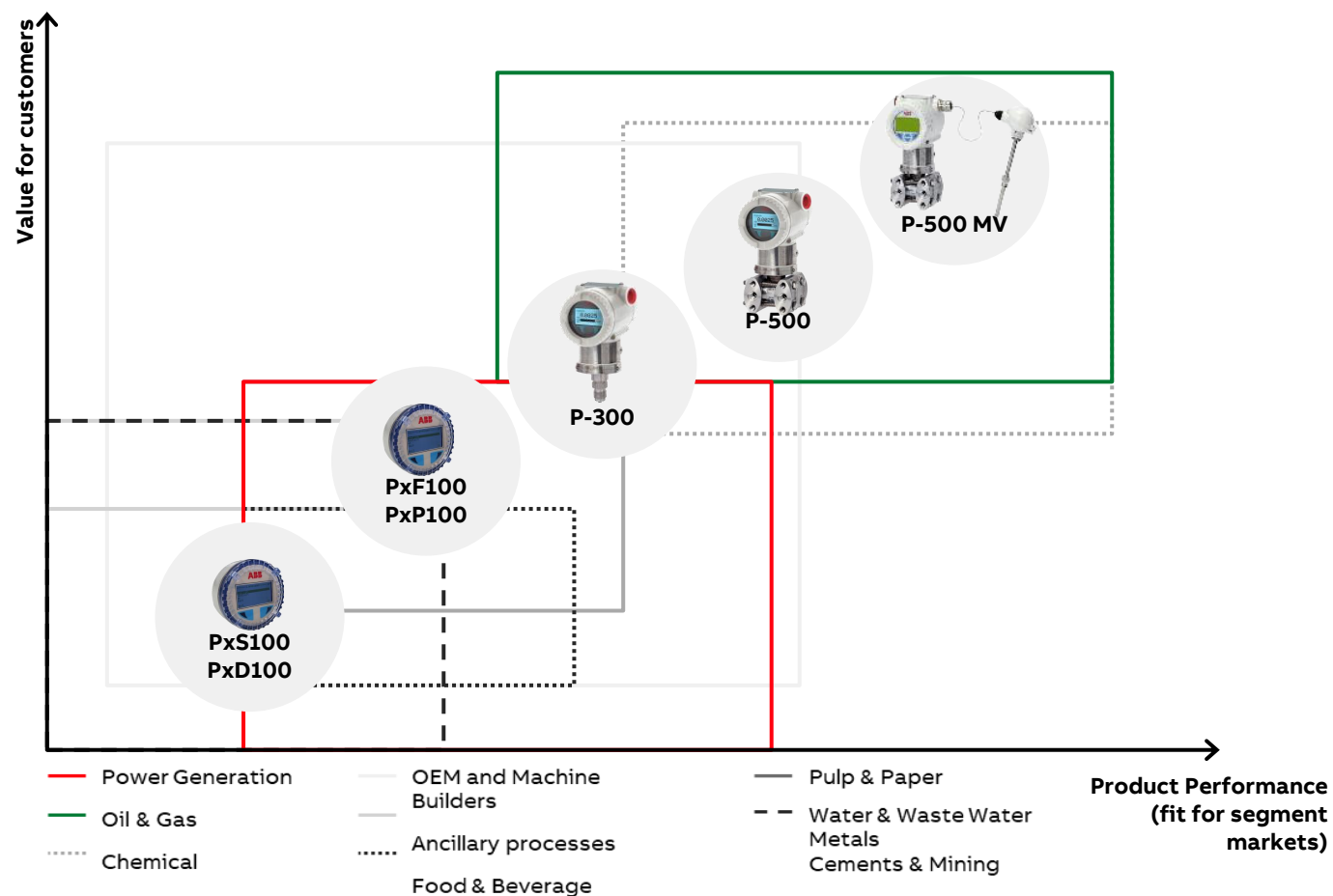


ABB Pressure Transmitter Landscape “2600T”

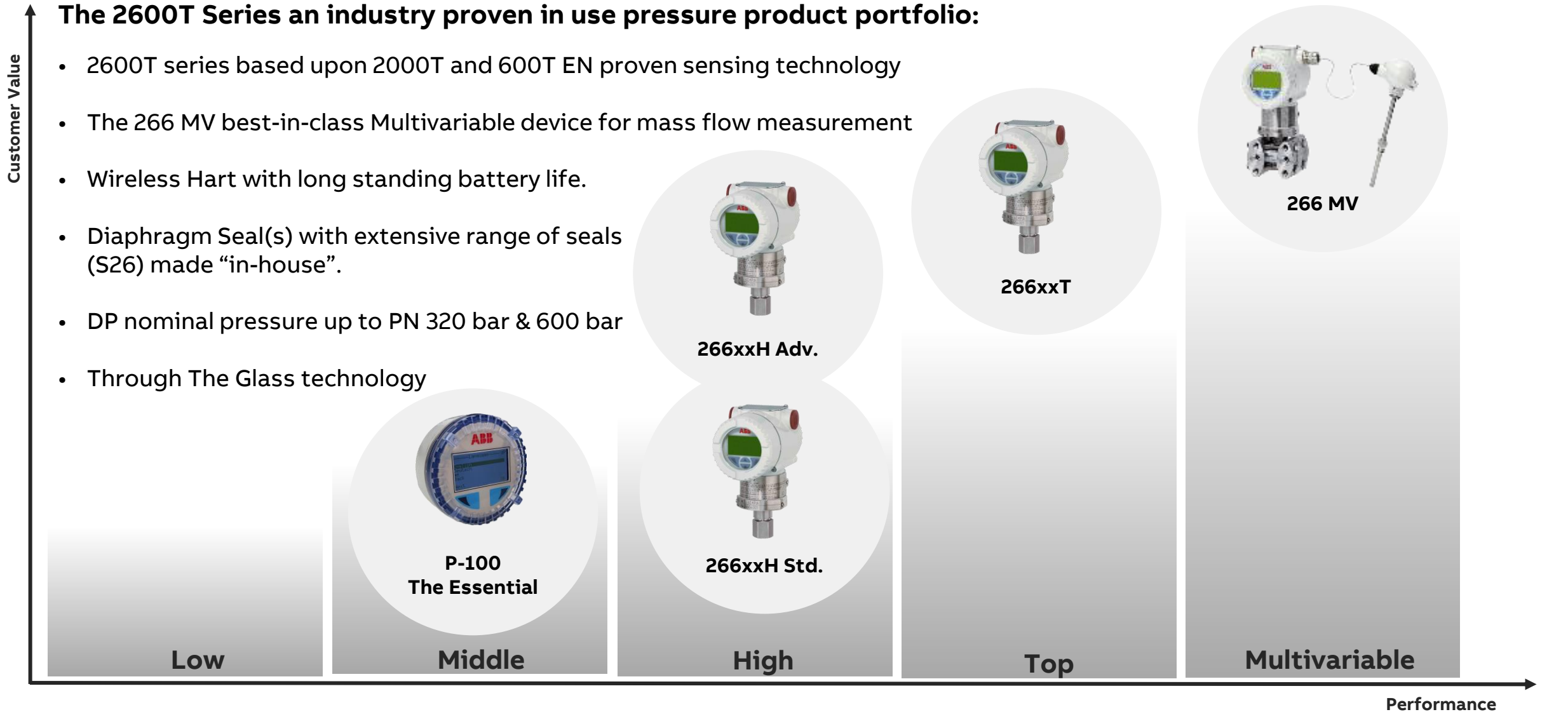
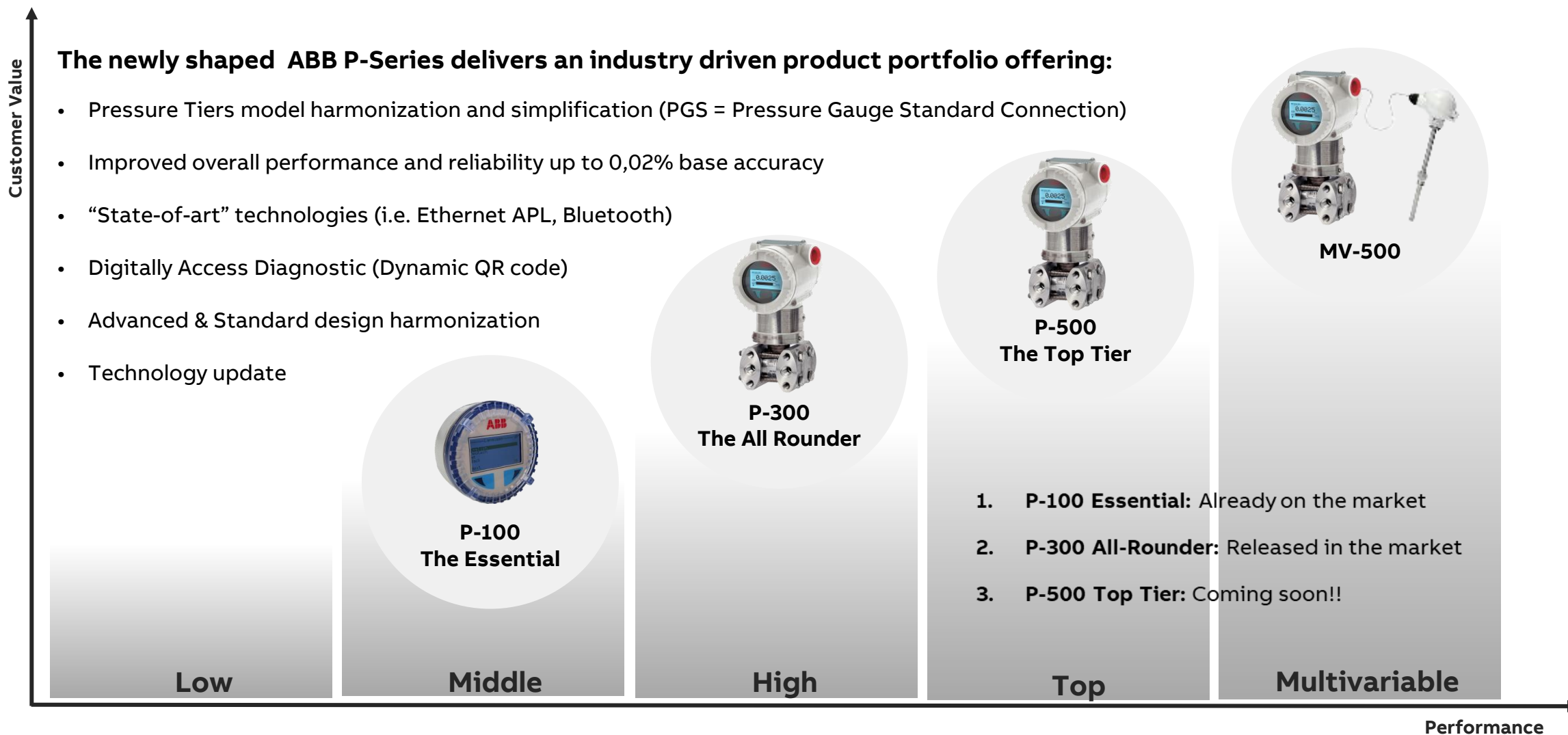
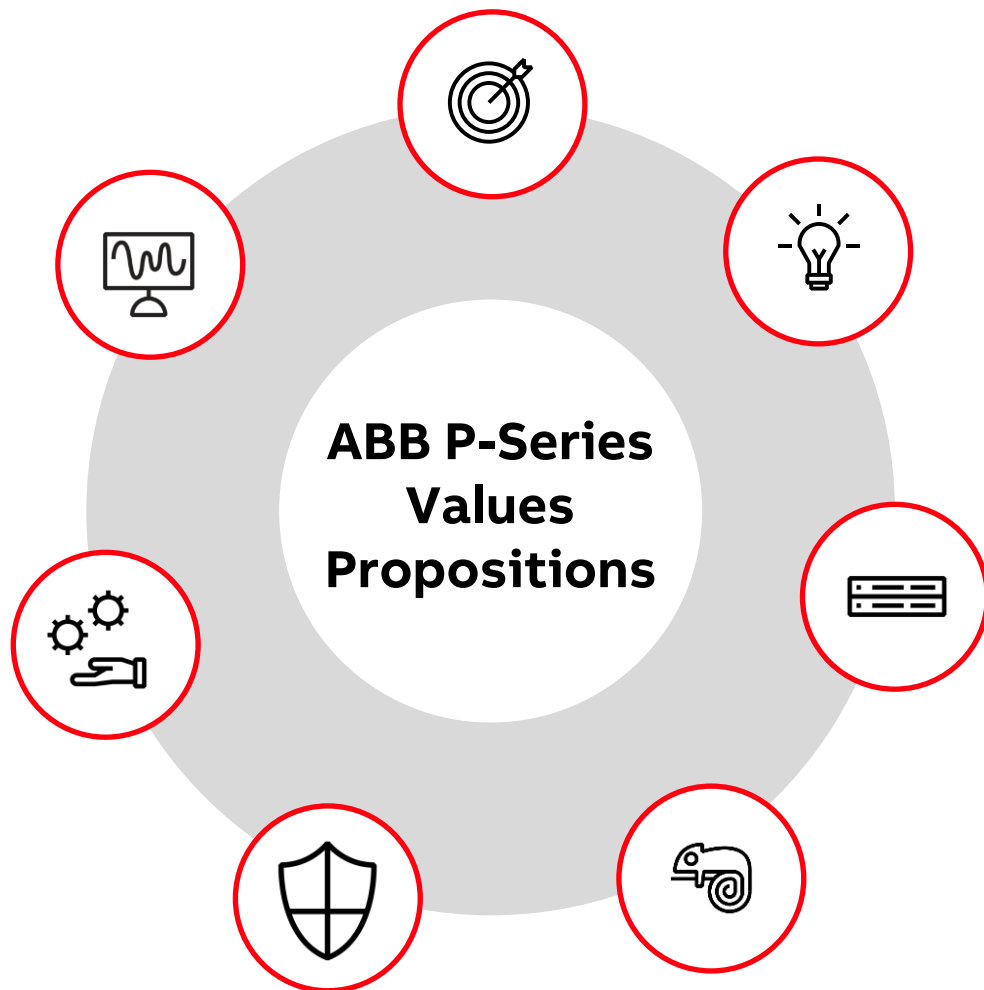


ABB Pressure Transmitter Landscape “P-Series”



The new P-series

Main Value Propositions



Higher Accuracy Level

Up to 0.02% for P-500, 0.055% for P-300 & up to 0.075% for P-100.

Tuned Choice of Sensor Range

From 0.05 kPa (0.2 inH₂O) on differential pressure application up to 105 MPa (15000 psi) on high gauge pressure application.

High Static pressure

Up to 4700 psi (32 Mpa) on PDS300 and 8700 psi (60 MPa) on PDS500.

Improved visibility with backlight

The new backlight display aboard P-100, P-300 and P-500 tiers.

Bluetooth option to unlock safer in-field operations

Remote programming with Bluetooth on P-300, P-500 (coming soon!).

Tailored & Flexible diaphragm(s) seal process connection

The P-series delivers the S26 high-quality geometry efficient diaphragm seal(s) with the proven in-use "all-welded" technology.

Unique anti-abrasion & hydrogen shield materials on transmitter's diaphragm

The unique technologies for demanding processes where hydrogen permeation or abrasion represents the major challenge to a transmitter lifetime.

Digital Advanced Diagnostics (DAD)

Digital advanced diagnostic (DAD) to ensure a top-level usability experience, instant access to device diagnostics.

Xenoy™ Housing – A game changer

Xenoy™ Housing and cover in polycarbonates, delivers a device with a weight half of stainless-steel housing (approx. 500 gr.) plus the ABB "state of art" technology Through The Cover (TTC).

Sustainability and Circularity

LCA report (Life Cycle Assessment) released on PDS300 and Pre-EPD (Environmental Product Declaration) available for PGS300 mode code.

RFID Tag (Radio Frequency Identification)

Identify device and exchange its information, for instance serial number, device Tag number etc

Ethernet-APL (advanced physical layer)

ABB pressure device through Ethernet-APL connectivity can access edge and cloud-computing features and enable from new opportunities in data-driven applications.(Digital connectivity, measurement performance).

2025

ROADMAP PL PRESSURE

P-SERIES

2025 Roadmap PL Pressure

Products Launches Overview

P-100 The Essential
- URL Sensor 6000 psi
- 1.5" Tri-Clamp URL "F"



Q1-Q2 2025

Launch Type: C

Industry segments:

1. Water & Waste Water
2. F+B
3. Machine Builders (F+B)

Geography: Global

P-300 All-Rounder
Pack II & III Release (*)



Q1-Q4 2025

Launch Type: B

Industry segments:

1. Power
2. Upstream Oil&Gas
3. OEM builder

Geography: Global

P-500 Top Tier
Gate 5 (**)



Q2-Q4 2025

Launch Type: A

Industry segments:

1. Refining
2. Chemical
3. Downstream

Geography: Global

P-100 The Essential
- SST Cover With Glass
- SIL TUV Assessment



Q3-Q4 2025

Launch Type: C

Industry segments:

1. Chemical
2. OEM Builder

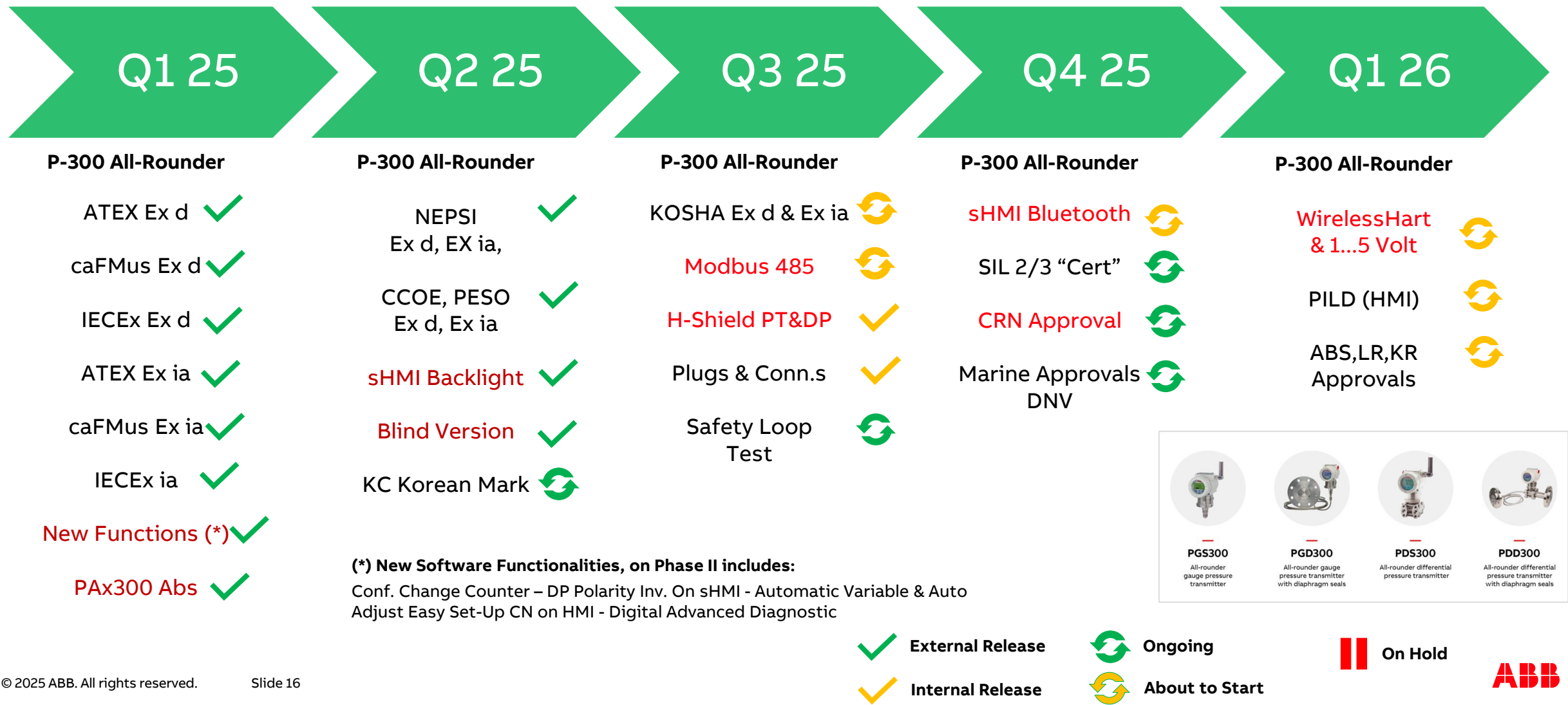
Geography: Global

(*) See next slides P-300, Packs II (Q1-Q2 2025) & III (Q3-Q4 2025) Content Release

(**) See next slide P-500 G5 Content Release & Packs

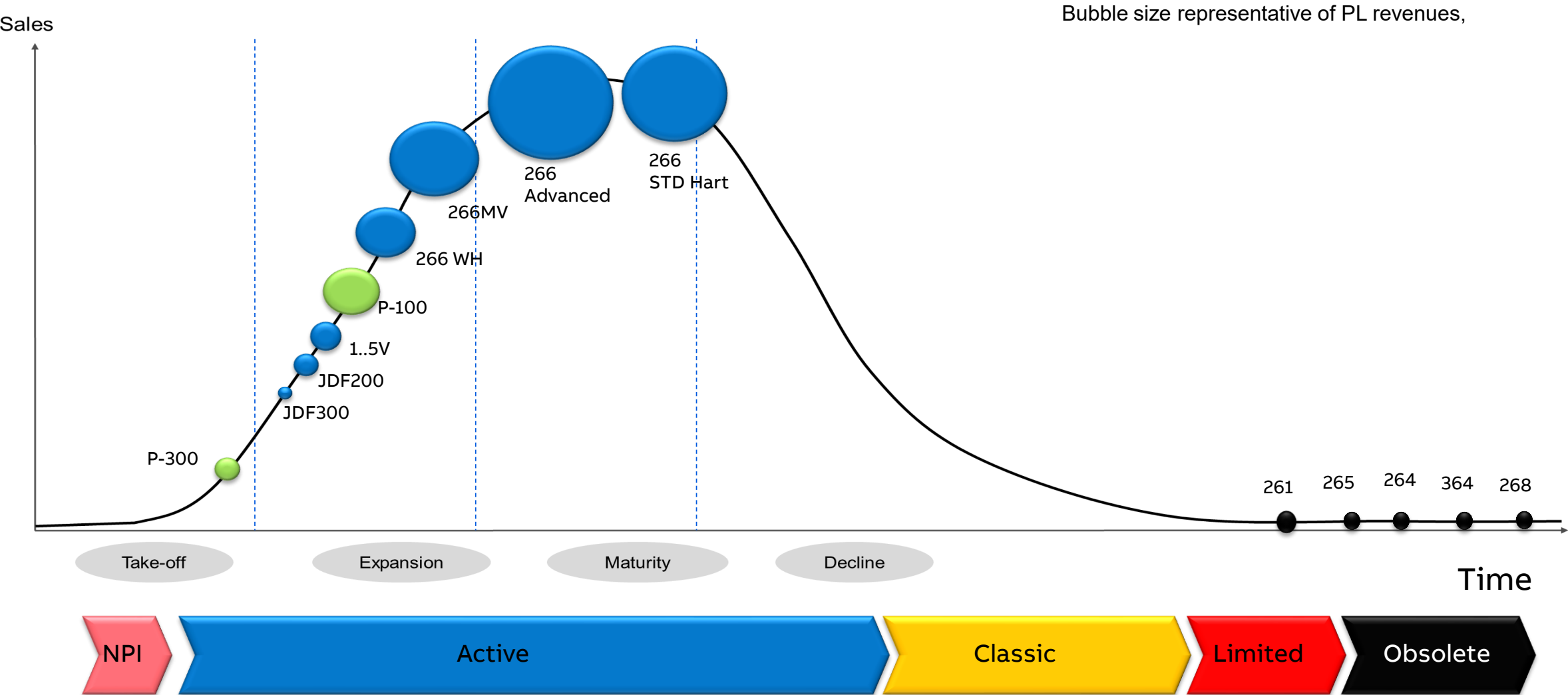
P-300 All-Rounder

Features Roadmap release





Product lifecycle status



MARKETING & COMMUNICATIONS SUPPORT

P-series



EPD Web Portal, Inside+, ABB My Measurement Assistant

Link Inside+:

EPD-IES-0012481:001 (S-P-12481) - Pre-Certified Environmental Product Declaration for PGS300 Gauge Pressure Transmitter (environdec.com)

Pre-Certified Environmental Product Declaration for PGS300 Gauge Pressure Transmitter



Product information

ABB PGS300 is the all-rounder gauge pressure transmitter suitable for measuring liquid, gas or steam pressure as well as liquid level in an open tank.

The EPD is a Pre-certification EPD.

Detailed information

Registration number: EPD-IES-0012481:001 (S-P-12481)
Status: Valid
En15804 Compliant: No

EPD documents

[EPD document EPD-IES-0012481:001 \(S-P-12481\).en.pdf](#)

Other documents

Link Inside+:

FAQs - Frequently Asked Questions| Internal |EN

ABB MEASUREMENT & ANALYTICS - FAQ - FREQUENTLY ASKED QUESTIONS
ABB P-series pressure transmitters
Product portfolio improvements FAQ



Exciting new products and features.
Measurement made easy

Installed ABB pressure transmitter Customer: Diego Casanovi

Dear ABB colleagues,

As part of the ABB Pressure portfolio evolution and improvement strategy, we would like to inform that the 2600T pressure transmitters series, manufactured since year 2010 will be upgraded starting by 2024 year to the new product portfolio named: **ABB P-Series**.

The **ABB P-Series** is an enhancement of the 2600T pressure family, featuring better performance, additional digital functionality, improved visibility, and easy user experience. The P-300 and P-500 tiers represents a further enhancement of the 266xxH and 266xxT tiers upon the rugged and field proven in use ABB sensor technologies.

The document is aimed at providing ABB colleagues an overview of ABB P-Series changes, answering in a quick and immediate way the most common requests and clarifications possibly raised by Customers.

For more information

A dedicated product launch page has been created to provide a wide and accurate selection of documents to support your sales activity. P-Series product launch page is available at following link:

ABB P-Series pressure transmitters

or by scanning this QR Code:



My Measurement Assistant

HOME > SERVICES > ABB P-SERIES MIGRATION TOOL

ABB P-Series Migration Tool

This tool offers equivalent PGS300, PGD300, PDS300 and PDD300 product codes for your existing 266HRH, 266HSH, 266DSH, 266DSH product codes. Just refer to the table, input your current product code, and click the Convert button to generate the corresponding P-300 product code.

Import

ConfX Tool

Please note, that required calibration different 0-URL digit SU on P-300 must be selected

ABB 2600T Model Code

1.

E.g. 266HRH.F.R.R.A.7-E1.L5

2.

E.g. 266HRH.F.R.R.A.7-E1.L5

3.

E.g. 266HRH.F.R.R.A.7-E1.L5

4.

E.g. 266HRH.F.R.R.A.7-E1.L5

5.

E.g. 266HRH.F.R.R.A.7-E1.L5

6.

E.g. 266HRH.F.R.R.A.7-E1.L5

7.

E.g. 266HRH.F.R.R.A.7-E1.L5

8.

E.g. 266HRH.F.R.R.A.7-E1.L5

9.

E.g. 266HRH.F.R.R.A.7-E1.L5

10.

E.g. 266HRH.F.R.R.A.7-E1.L5

+ add another code

ABB P-Series Model Code

click "Convert" to generate

click "Convert" to generate

click "Convert" to generate

click "Convert" to generate

click "Convert" to generate

click "Convert" to generate

click "Convert" to generate

click "Convert" to generate

click "Convert" to generate

click "Convert" to generate

Clear

Convert

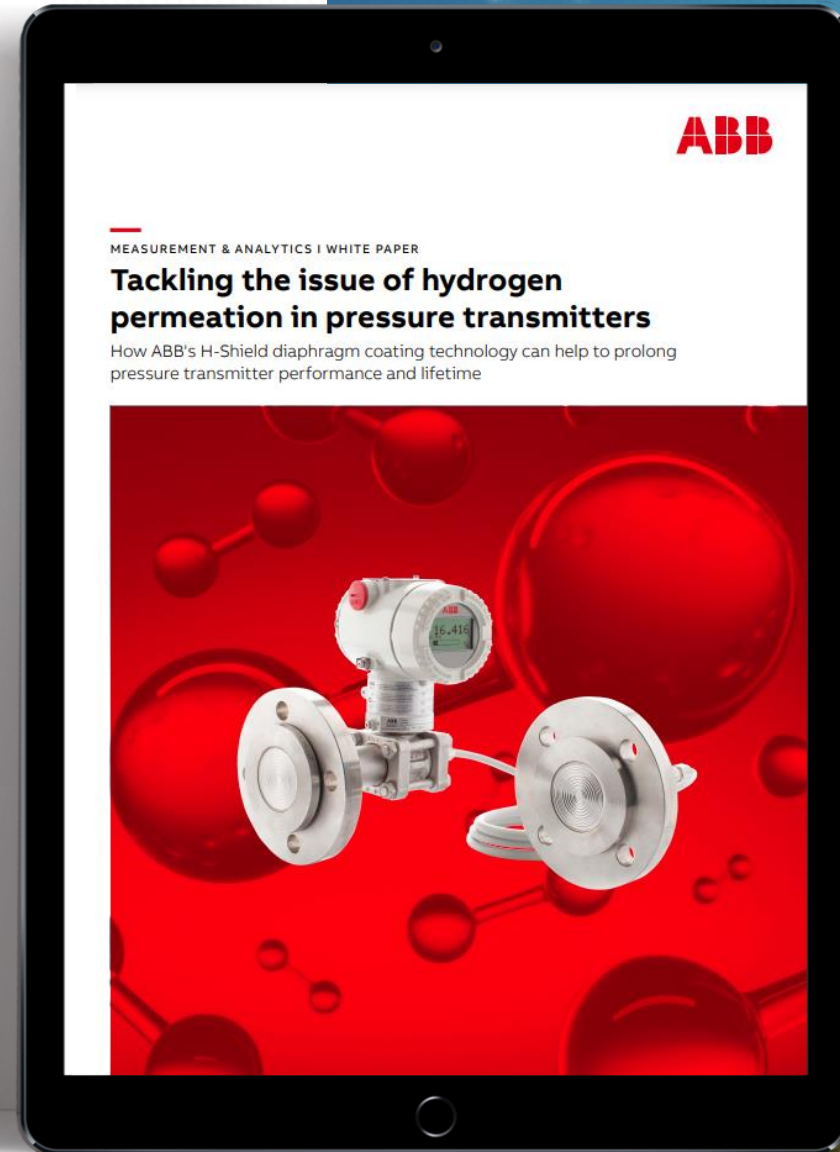
© 2025 ABB. All rights reserved.

Slide 19

ABB P-Series Pressure Transmitter

Elevating accuracy and durability in hydrogen applications

Download our **White Paper** to discover how our **pressure measurement solutions** can **elevate** your **hydrogen applications**



TEMPERATURE

Fit for global markets and target segments

Temperature Transmitter

TTx Temperature transmitter – a dependable core

Software features

-  NAMUR NE107 Diagnostics
-  Sensor drift and backup
-  Event Monitor

Wide environmental & measurement conditions

-  Multiple HazLoc Certifications
-  SIL2/SIL 3 for safety loop with no mission lifetime limitations
-  -50°C to 85°C
-   

Functional advantages

-  3/4 wires RTD, TC, Voltage
-  Single / Dual channel
-  Analog accuracy up to 0,025%

Configuration features

-  Fully configurable over HMI
-  Device Driver: FDI, EDD & DTM
- Multiple communication protocols
 
 



Customer benefits

-  Low maintenance cost due to standard puck electronics. Lower maintenance costs
-  Higher productivity with fully configurable transmitter and sensor from HMI. No explicit need for handhelds
-  Exceeding the latest safety standards ensuring the safety of your plant is up to date
-  Event monitoring and Diagnostics for enhanced process monitoring

ABB's TTD300 – Dual Compartment Field Housing

Key customer benefits



Increased resilience

Dual compartment separates field wiring from the sensing electronics. Provides an additional layer of electromagnetic and environmental protection during commissioning.



Enhanced protection

Optional internal surge protection, enabling a higher level of protection against lightning and additional surge than conventional field housings.



Ease of maintenance

Same look and feel now as Pressure and Level. Allows for simpler learning curves for maintenance personnel and common spare parts with ABB's field instrument portfolio.



Proven performance

Built on the world class TTH300 electronics. The oil and gas market now benefit from the robust performance of hundreds of thousands of installations worldwide.



NINVA

Now with SIL2

NINVA™ - Customer Driven Innovation

Proven performance range

PROVEN PERFORMANCE

RELEASE 2024

Measurement of liquids

Proven field performance

Measurement of Steam

Proven field performance – Saturated and Superheated Steam

Measurement of Gasses

Proven field performance – Gas flows up to 450°C

Measurement of Highly viscous liquids (laminar)

Proven field performance – e.g., Black liquor

Measurement on small diameter piping (<DN40)

Proven field performance: DN15 mounts

Measurement above 400°C

Proven field performance: Superheated Steam

High vibration environments (pumps/compressors)

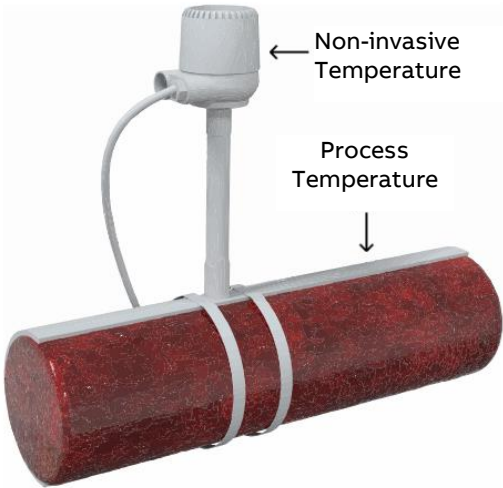
Proven field performance: Compressors and Pumps

Performance predicted
by Online Engineering tool

Process	100 °C
Difference	-0.57 ✓
Non-invasive	99.43 °C ✓

Report ↓

Contact ABB



Standards are incorporating non-invasive measurements

Driven by customer demand



Standards and criteria for the use of non-invasive temperature available from

- JIPP 33¹
 - **S-718 Basic Process Measurement Instruments (Addendum 2)**



New Recommendations for the use of Non-invasive temperature measurements:

- VDI 3520²
- NORSOK I-001
- API 551



A growing list of applications and success stories

Every plant in the world needs a non-invasive temperature measurement today!

Use Case/Problem	Industry (applies to)
1. Temperature monitoring at wellheads.	O+G
2. Temperature monitoring on heat tracing lines.	Chemicals (O+G, Chemicals)
3. Temperature monitoring for leak detection on gas pipelines.	O+G (O+G, Chemicals , Water, District heating/cooling)
4. Preventing overheating of flowing product.	Chemicals (F+B)
5. Replacing troublesome thermowells.	Chemicals (All – In particular steam and gas lines)
6. Hygienic and non-invasive monitoring of sterilization cycles.	Bio Chem (F+B)
7. Reduce CAPEX for greenfield biodiesel plants.	O+G (All process industries)
8. Temperature monitoring for heat exchangers in refineries.	O+G (All process industries)
9. Redundant temperature monitoring of process air.	Power (All process industries)
10. Ensuring product temperature to prevent polymerization.	Chemicals (F+B)
11. Preventing overspill with temperature compensation.	Chemicals (O+G, F+B)
12. Maintaining uptime on ageing assets.	Gas (All process industries)

Use Case/Problem	Industry (applies to)
13. Eliminating thermowells in erosive + viscous flows.	P+P (Chemicals, Power)
14. Chilled water monitoring and control in semiconductor plants.	Semi Conductor (All Process Industries)
15. High temperature process gas measurements.	Chemical (Power, P+P, Metals)
16. Temperature insets failing due to process vibration.	Chemical (All process industries)
17. Eliminate possibility of contamination in beverages.	F+B (Chemicals)
18. Pump temperature monitoring to prevent overheating.	Chemicals (All process industries)
19. Enabling new insights in tubular chemical reactors	Chemical
20. Temperature monitoring to avoid plugging	O+G offshore
21. Eliminating “bad actor” thermowells in refineries	O+G Refining
22. Vessel wall temperature “hot spot” monitoring	Chemicals
23. Eliminating thermowell erosion in air/coal mixture	Power
24. Reliable and Safe control of high temperature heat exchanger	Chemicals
25. Simpler temperature monitoring in district heating networks	Energy

NINVA™ (TSP341-N) – Compact ...perfect for Volume

Product description – high vibration resistance, unique for small piping and uninsulated equipment like pumps and motors!

Relevant Data at a glance

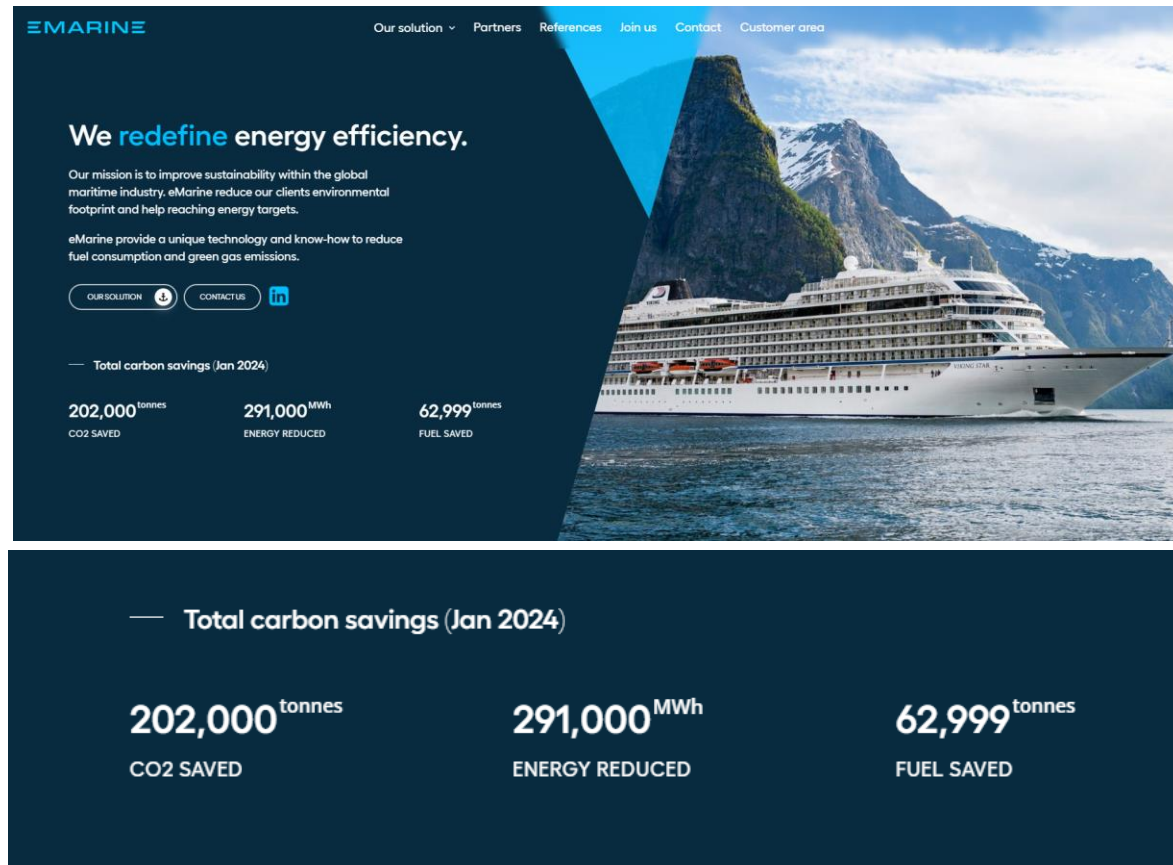
Process connection	Surface mounting to piping (Clamp-on concept),
Sensor	RTD – 2 x Thin film resistor Pt100, three-wire circuit; nickel tip
Accuracy	2 x Class A, IEC60751 Insets
Response time	$T_{90} < 45s$ on liquid media, turbulent flow ($Re > 10000$), Metal Piping
Material connection heads	Aluminum, epoxy-coated;
Communication	4...20 mA, HART 7
Response time	$T_{90} < 45s$ on liquid media in turbulent flow regime
Measuring range (surface temperature)	-40 to 130°C (-40 to 266 °F)
Certifications	DNV (NOW) ATEX, IECEx and FM Intrinsic safe Q1 2026
Vibration resistance	Integral or remote; 4g DNV Class B (>2g and 50g shock resistance, IEC60068-2-6)
Piping diameters	DN15 – DN2500 (1,5" – 88") ²
Certified for use in safety systems	Planned only based on market demand



NINVA Compact (TSP341-N L6)

Emarine – SE – Emission reduction solutions for ships through efficiency

OEM order with strong end to end margins



For e-marine: ~XXXXK€

1. >1000 NINVA (Compact High g)/year used for accurate temperature measurement on Cargo and Cruise vessels
2. **ABB NINVA preferred over existing surface sensor due to better accuracy and robustness of surface measurement**
3. *Willingness to pay more for performance than traditional surface sensors*

For ABB

1. Enables a much asked for high vibration product for Marine and Mining markets – NINVA high g
 - Portfolio growth with little investment
 - Higher margins and prices for NINVA high g

RELEASES 24-25-Q1,26

Temperature

2024 – Q1 2026 Introductions/Launches - Temperature

Products / Features Launches Overview

TTF300 with
3rd party



Q3 2024

Dual
Compartment



Q4 2024

Launch Type: B/C

Industry segments:

1. Chemicals
2. Oil and Gas

Geography: MEA, IN, EPCs

NINVA small pipes
and high vibration



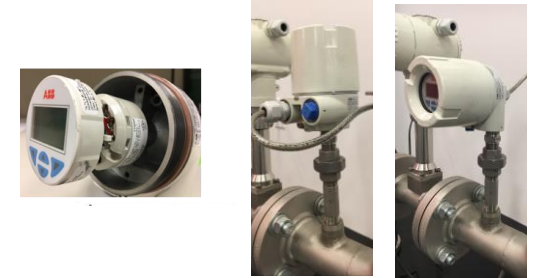
Q4 2025

Launch Type: C

Industry segments:
OEM, Marine, Non-Ex

Geography: Global

TTF100 modular transmitter



Q1 2026

Launch Type: B

Industry segments:

1. Chemicals
2. Oil and Gas

Geography: Global

Can be used with (IECEX):
Aschcroft, Yamari, Daily

Industry segments:

1. Chemicals
2. Oil and Gas

Geography: Non-Eu market

LEVEL

Development roadmap to enable growth
and performance

ABB level measurement

Once upon a time...

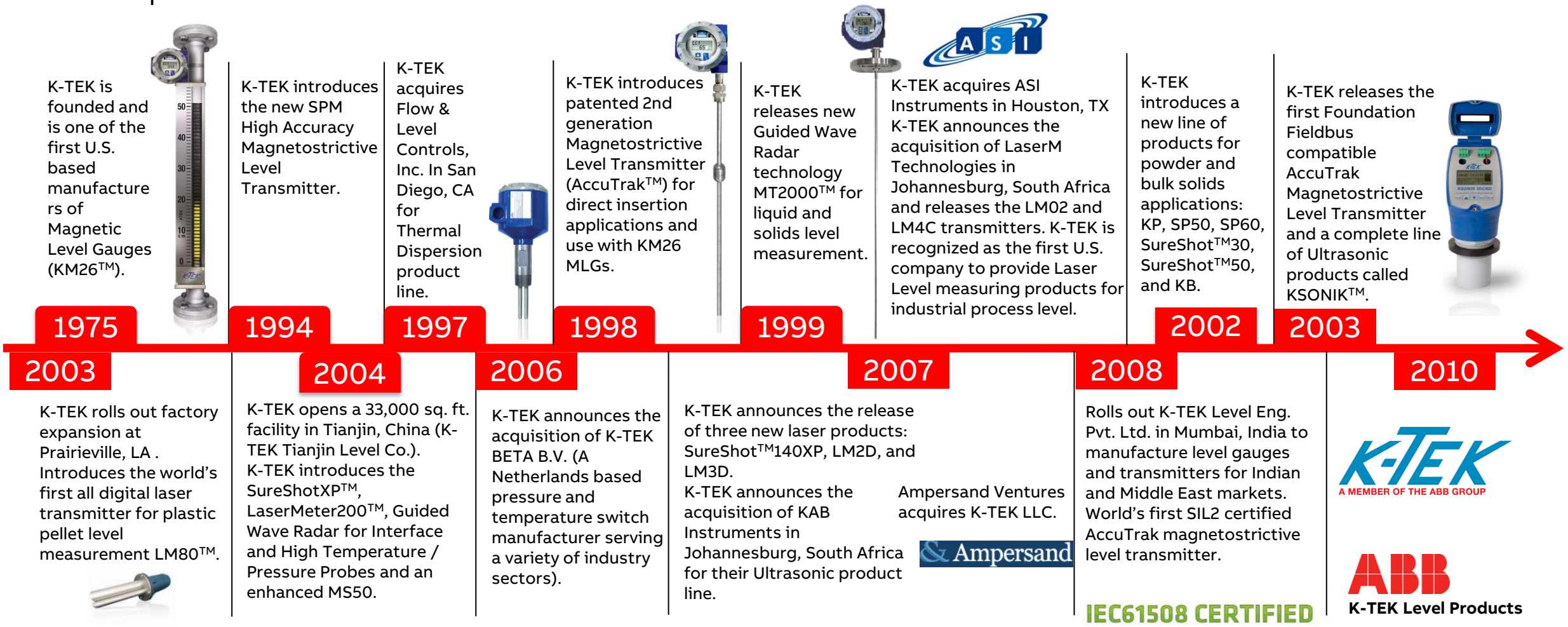


ABB level measurement solutions

Engineered to outrun

50yrs

of level measurement technology expertise, competes worldwide with global & local manufacturers with simple switches to advanced transmitters to provide the least expensive, most reliable and exactly appropriate way to deal with fluids from flammable hydrocarbons to sticky foams, clumping solids and elusive interfaces !

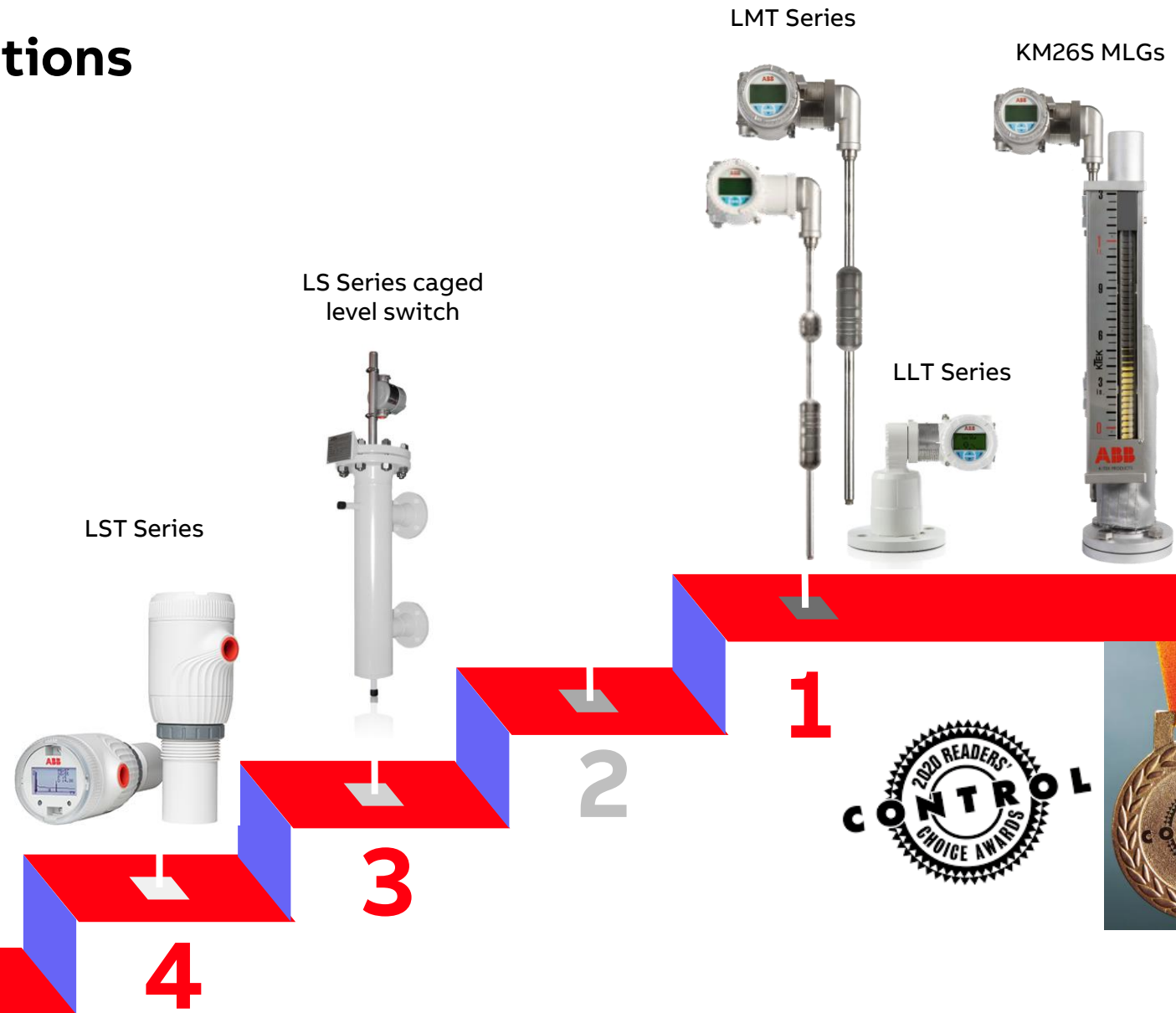


ABB level products

Top applications, top industries






Chemical

Power

Oil & Gas

Water & Waste






Petrochemical

Food & Bev.

Mining

Pulp & Paper

Industries	Applications
Chemical & Petrochemical	Acids such as HCL, HF, Sulfuric. Toxic chemicals such as HCN, Bromine, Sulfur Dioxide, Nitric Oxide. Caustics like Ammonia, sodium & potassium hydroxide
Food & Beverage	Silos, liquid storage and processing tanks/vessels
Pulp & Paper	Wood chips & silos , Pulper & Liquor level measurement
Water & Waste	Sludge processing, pumping & lift stations, deep wet wells
Mining	Crusher control, coal/ore storage, bunker level, floatation cells
Oil & Gas	High/Medium/Low pressure separators, Acid settling, Alkylation, crude storage, compressor skids, NGL (butane, ethane, propane, He, etc.) production
Power	Boiler drums, Feedwater heater, chemical dosing plants

Level products: Regional success continues

Global customers, large projects

2023



ABB Malaysia: Pikka Oil Field, Alaska– 29 sets of KM26S & LMT200 with HSC materials.



ABB Singapore: Modec EPC for Petrobras BMC 33 Project – 50 units of KM26S including 316SS & HSC with low specific gravity.

2022



ABB Australia: WAF 20917 IAC Sight Glass Upgrade Project – 20 sets of KM26S & LMT200



ABB Malaysia: Petronas BAGSF -2 gas sales facility – 14 units of KM26 in Duplex material + 4 sets of EC chamber with LWT GWR



ABB South Korea: NOC Gallaf Batch-3 Al-Shaheen oil field – 18 sets of EC in duplex material with LWT300

2021



ABB Malaysia: FPSO – Mero 3 TOPSIDES S20 Fuel gas treatment package – 39 sets of KM26S + LMT200.

2020



ABB Malaysia: Kasawari central processing platform (CPP) – 31 sets of KM26S + LMT200

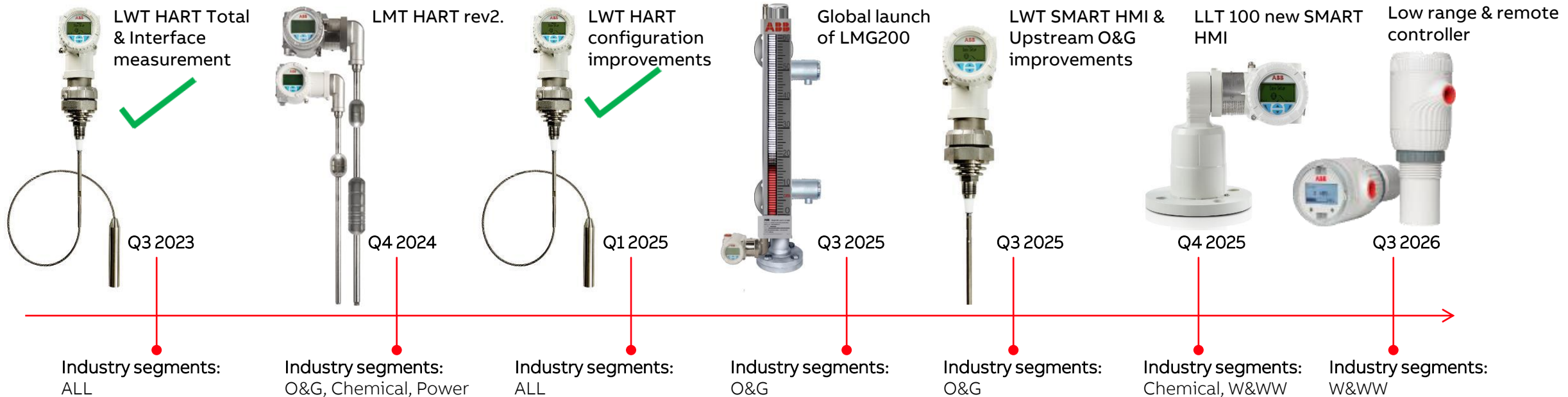


ABB Malaysia: Lingshui 17-2 gas field project – 14 sets of KM26 + LMT200



2023- 2026 Launches - Level

Product launches overview



- APL for LWT Series and LLT Series by 2027
- Complete High Pressure /High Temperature options in LWT for Chemical Segment
- Smart HMI with Bluetooth – App compatible with Android and iOS is a must. Must have “Waveform” feature for Level products.
- Introduce LMT Series Modbus/Levelmaster with flexible probe in PMU BTL for Upstream market
- White spots filled for OPR & Vibrating fork
- Continuous monitoring and execution of obsolescence management

Q&A

ABIB