

# Safety - Spacer Safety Purpose Agenda Code of Conduct Expectations Roles



# **Agenda**

- Learn the details of the NEW SmartLine offering, but more importantly......
- Learn the SmartLine Story

   Better on it's Own (Value from Industry Leading Performance and Lowest Cost of Ownership) Better on it's OwnBetter Together (Value of Better Integration with Experion)

### Agenda Topics:

- Pressure Theory (Slides also available for self instruction @ WEB SITE (you must sign in for access)
- SmartLine Overview & Program The SmartLine Story
- (Why Develop SmartLine/Project Scope/Phases/Logistics) SmartLine Features, Functions & Associated Value 3 Pillars of Excellence
- Demo Kits & Hands-On Workshop
- Competitive Information
- Field Instruments Segmentation (How to Position and sell the ST 800 & ST 700)
- MARCOM Overview & How to Find More Information?
- Final Summary / Quiz and Call to Action

### **Expectations:**

- Be able to properly communicate the major differentiating categories of the ST 800.
- Know the details behind each of these categories.
- Be able to communicate the value story associated with these features.

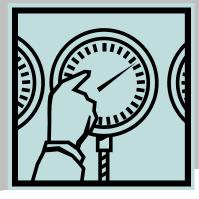
## What is Pressure and How Do We Measure It?

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AM Break ~ 10:00AM

PM Break ~ 3:00PM

Lunch ~ 12:00 Noon

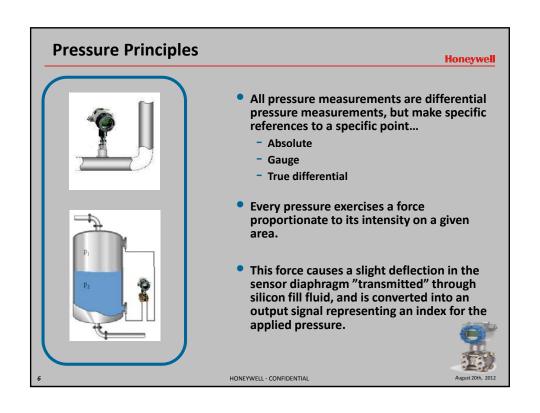


**Pressure Basic Theory: Theory & Fundamentals** (Optional Presentation)

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Agenda

### **Transmitter Fundamentals** Honeywell Transmitter Basics **Theory of Pressure** Measurement - Terminology - Absolute Pressure - Transmitter Types - Gauge Pressure - Process Heads - Differential Pressure - Barrier Diaphragms - Fill Fluids - Overload Assembly - Sensor Assembly - Electronics Module - Diagnostics - Housing - Optional Equipment HONEYWELL - CONFIDENTIAL



### What is Pressure?

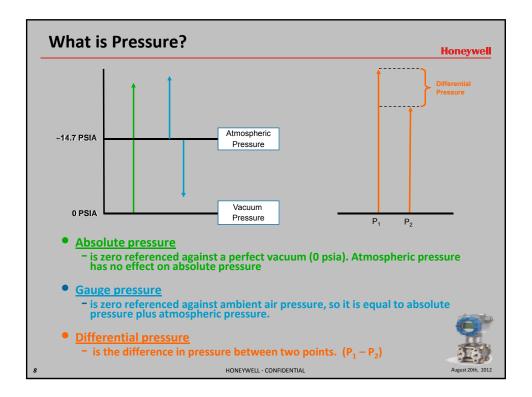
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### Static Pressure

- Most common measurement used
- Represents the exact process pressure
- Valid with either gauge or absolute pressures
- Key component of flow measurement calculations



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### **Absolute/Gauge Pressure Principle**

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### Gauge Pressure

- This sensor is used in different applications because it can be calibrated to measure the pressure relative to a given atmospheric pressure at a given location.
- An example of gauge pressure would be a tire pressure gauge.
  - When the tire pressure gauge reads 0 PSI, there is really 14.7 PSI (atmospheric pressure) in the tire.

### Absolute Pressure

- This sensor measures the pressure relative to perfect Vacuum pressure (0 PSI or no pressure).
- Atmospheric pressure, is about 100kPa (14.7 PSI) at sea level. Atmospheric pressure is an absolute pressure.

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Differential pressure measures the pressure drop across a fixed orifice plate or over/between any two areas.
 The difference in pressure exercised on both sides of the sensor causes a deflection of the diaphragms which is then converted to a proportionate output signal.

### **Transmitter Basics - Terminology**

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- Accuracy:
  - Limits that errors will not exceed in "% of full scale" or "% of rate".
  - Includes the combined effects of linearity, hysteresis and repeatability.
  - Includes residual error after averaging successive readings.

### Repeatability:

- Closeness of agreement between consecutive measurements under the same conditions.

### Rangeability:

- Minimum and maximum measurements for a given instrument.

### Turndown Ratio:

- Ratio of maximum measurement to minimum measurement for a given instrument.

### Reliability:

Measure of expected life; typically expressed as MTBF.

### Reference Accuracy:

- Accuracy of the device at lab conditions. (Typically 25oC, 10 55% relative humidity, & stainless diaphragm material
- Does not tell the whole accuracy story once installed!

### MAWP:

- Maximum Allowable Working Pressure.
- It is the published "do-not-exceed pressure" for Absolute or Gauge transmitters!
- For differential pressure, it is the "do-not-exceed" static pressure.



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# Transmitter Basics – Terminology (cont'd)

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- Linearity:
  - The closeness to which a curve approximates a straight line.

### URL / LRL – (Upper Range Limit / Lower Range Limit):

- Manufacturer's designated normal range of the device

### URV / LRV - (Upper Range Value / Lower Range Value):

User's designated upper/lower range of the device

### Stability:

 Expressed as a percentage of the URL (upper range limit) per year for the lifetime of the transmitter.

### Combined Zero and Span Temperature Effect:

- The effect that changes in temperature have on "Total Probable Error"

### • Combined Zero and Span Pressure Effect:

- The effect that changes in atmospheric pressure have on "Total Probable Error"

### Total Probable Error:

Accuracy plus Combined Zero and Span (Temperature and Pressure)



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### **Transmitter Basics -Total Probable Error**

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How to compare the accuracy referred to in specifications?

**Using Total Probable Error (TPE) Performance** 

TPE = 
$$\sqrt{(RA)^2 + (TEZ)^2 + (SPEZ)^2 + (SPEZ)^2}$$

Where: TPE = Total Probable Error

RA = reference accuracy

TEZ = temperature effect on zero

TES = temperature effect on span

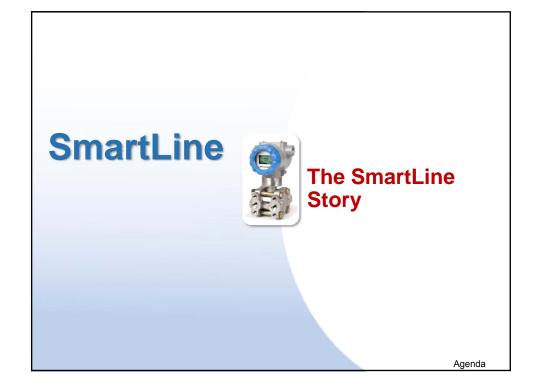
SPEZ = static pressure effect on zero

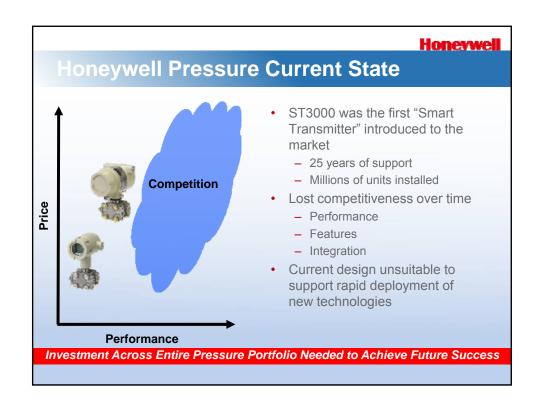
SPES = static pressure effect on span

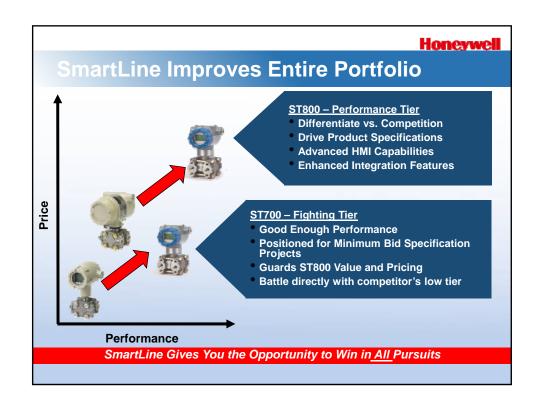
Consider all these 5 variables as the most comprehensive and accurate way to determine "TPE performance"!

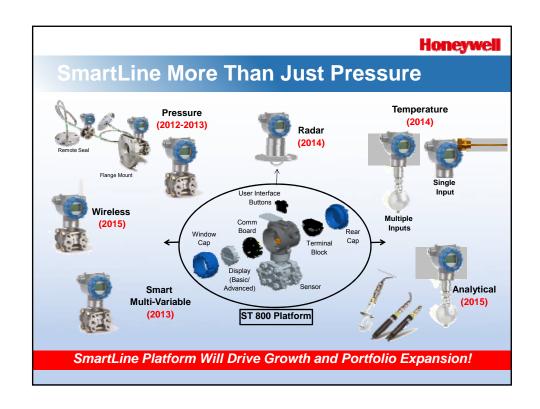


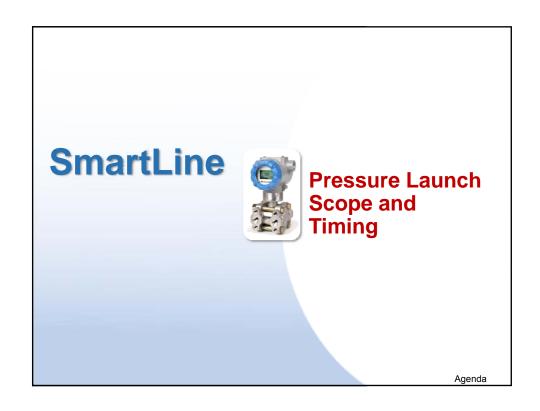
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# What is SmartLine Pressure?



# SmartLine is a complete pressure transmitter offering

A complete line of New High (ST 800) and Low (ST 700)
 Performance Pressure Transmitters will be offered

**Absolute Pressure Transmitters** 

**Differential Pressure Transmitters** 

**Gauge Pressure Transmitters** 

**Remote Seal Transmitters** 

Flanged/Level Transmitters

**Multivariable Transmitters** 

**OEM Meter Bodies** 

**Remote Meters** 



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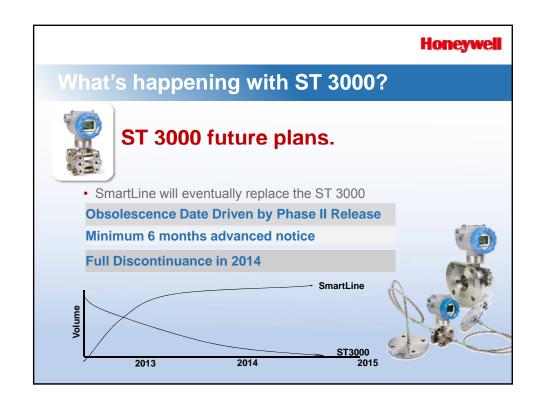
# When are we launching?

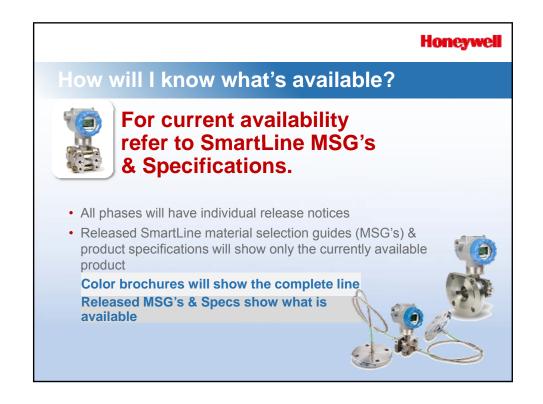


# SmartLine transmitter phased release timing.

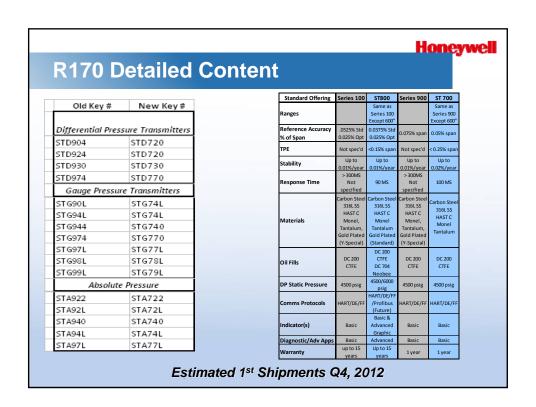
- Internal release for sale September 1st, 2012
- 1st Public Showing EMEA HUG November 14th, 2012
- · Phased product releases -

AP/DP/GP Volume Shipments R100 (HART/DE/FFB) Oct, 2012 APAC; Nov, 2012 ROW Volume Shipments R170 Remote Seal/FL Q4, 2012 Volume Shipments **R200** Remote Seal/FL Q1, 2013 SMV/RM Volume Shipments **R300** (Profibus) Q3, 2013





### Honeywell **R100 Detailed Content** Absolute/Differential/Gauge Pressure Transmitters Old Key # New Key # Protocols Available HART/DE/FFB Differential Pressure Transmitters User HMI STD110 STD810 **Basic Display** STD120 STD820 Advanced Digital Display STD125 OBSOLETE Three Button Programming STD130 STD830 Languages Basic Display – English Only Advanced Digital Display – English, German, French, Spanish & Russian STD170 STD870 Gauge Pressure Transmitters STG140 STG840 Current ST 3000 advanced diagnostic set becomes the basic offering Diagnostics STG14L STG84L STG14T OBSOLETE Materials STG170 STG870 All Diaphragms, Heads, & Bolts etc STG17L STG87L Silicone Oil DC200 & Fluorinated Oil CTFE STG180 OBSOLETE **Aluminum Housing** STG18L STG88L **Approvals** STG19L STG89L FM/CSA/ATEX/IECEx/NEPSI Absolute Pressure X-Proof/IS/Non-incendive/Dust-proof STA122 STA822 **Single Calibration** STA12L STAR2L All ST 3000 Mounting Brackets STA140 STA840 Angle/Flat Carbon Steel /304SS STA141 STA841 Marine 304SS STA17L STA87L **Experion Integration Tools** 1st Volume Shipments 1 Oct 2012 (Tianjin) 1 Nov 2012 (York)



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### **R200 Detailed Content**

	Old Key #	New Key#
	Flange Mounted Transmitters	
	STF128	STF828
П	STF12F	STF82F
	STF132	STF832
П	STF13F	STF83F
П	STF14F	OBSOLETE
	STF14T	OBSOLETE
	STF924	STF724
	STF92F	STF72F
П	STF932	STF732
П	STF93F	STF73F
	Remote Seal Transmitters	
	STR12D	STR82D
	STR13D	STR83D
	STR14A	STR84A
	STR14G	STR84G
	STR17G	STR87G
	STR93D	STR73D
L	STR94G	STR74G

- All R100 & 170 Availability
- Remote Seals Transmitters
- Flange Level Transmitters
- Stainless Steel Electronics Housing

Estimated 1st Shipments Q1, 2013

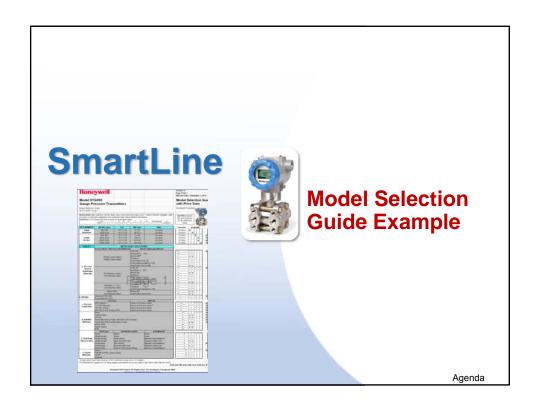
# **R300 Detailed Content**

### Old Key # New Key# OEM Multivariable Meter Bodies MXA045 MXA745 MXA125 MXA845 MXA145 MXA845 MXG170 MGX870 Smart Multivariable Transmitters SMA110 SMA810 SMA125 SMA825 SMG170 SMG870 Gauge Pressure Transmitters New STG830 New STG83L New STG730 STG73L New STG93P STG73P

- All R100, 170, 200 Availability
- Smart Multivariable Transmitter
- OEM METER Bodies (MVX)
- Advanced Diagnostics

   PILD
- Remote Meter/Indicator
- High Accuracy
- All Hast C LGP
- G ½ B Fitting for LGP
- 50 psi Range for GP & LGP
- DC 704 & Neobee Fill Fluids (ST 800 Only)
- Profibus

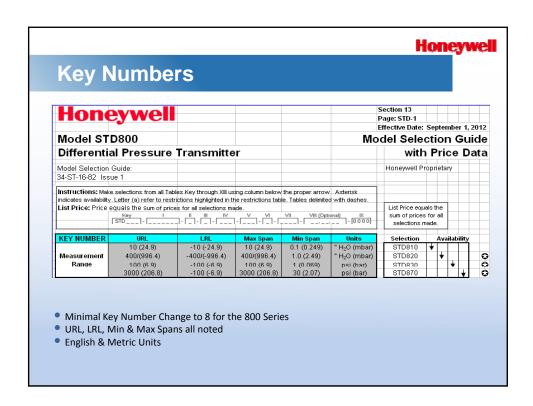
Estimated 1st Shipments Q3, 2013

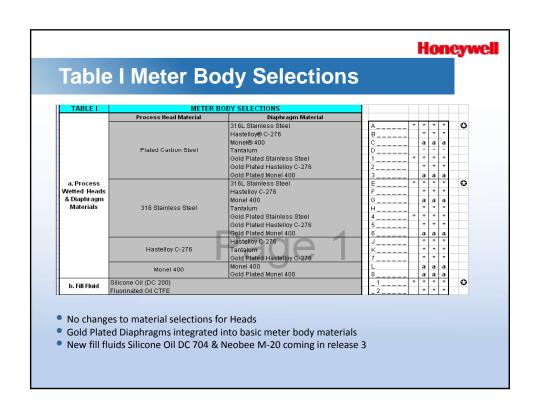


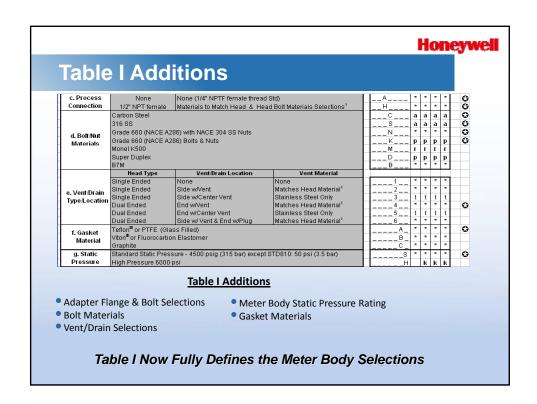
# **Model Selection Guide Overview**

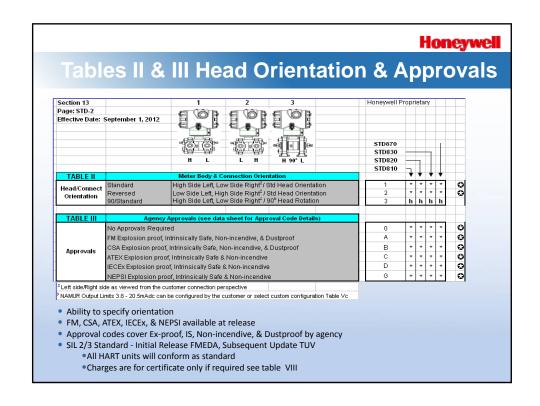
- Key Numbers
  - Minimal Change STD120 & or STD 924 => STD820 or STD720
    - · Table I Meter Body Related Selections
  - No Model # Structure Changes to basic material selections
    - Process Head Material no changes
    - Barrier Diaphragm Material no changes
    - Fill Fluid Selection no changes
    - STD120-A1A => STD820-A1A
  - Table I Expanded to Include:
    - All Material Selections are Now a Part of Table 1 i.e. Gold Diaphragms etc
    - Adapter selections added
    - Bolt Materials added
    - Vent/Drain Selections added
    - Meter Body Static Pressure Rating selection added
    - Gasket Material Selection added
- Tables II VIII Standardized for all ST800 Models
- Models/Options with Best Delivery Indication 3

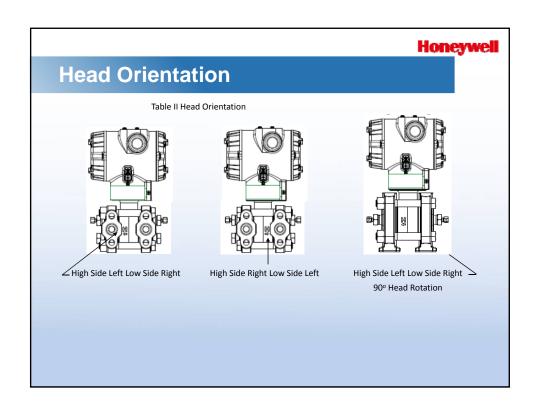
Table I now contains all meter body Selections

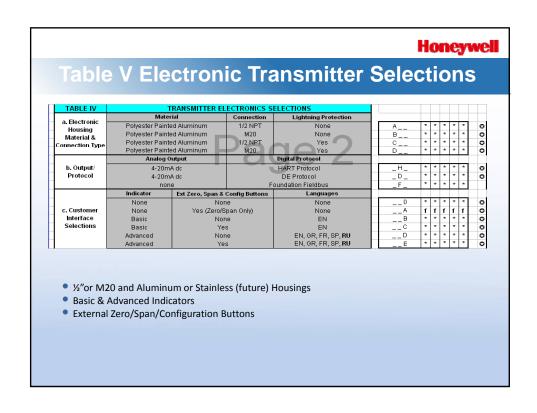


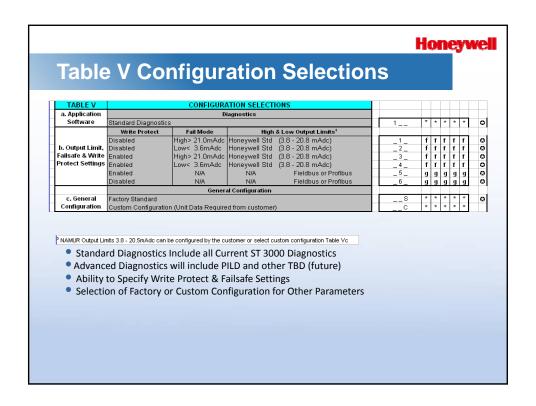


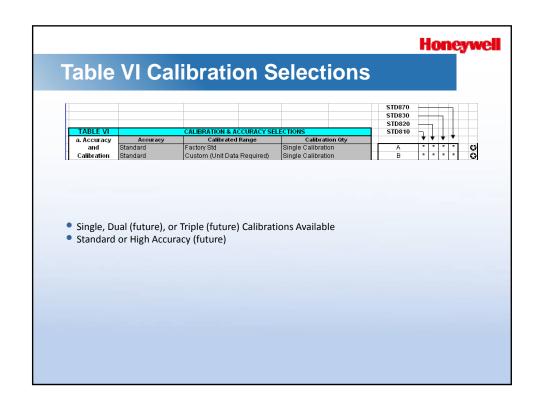


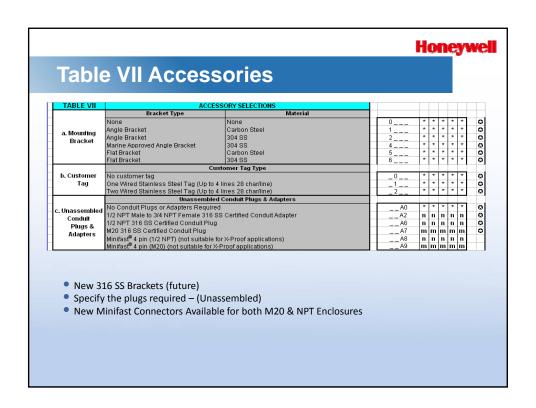


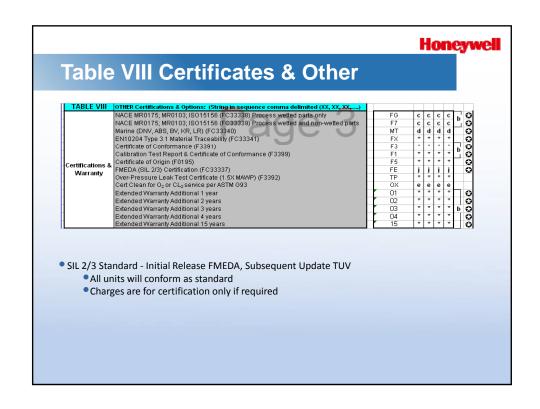


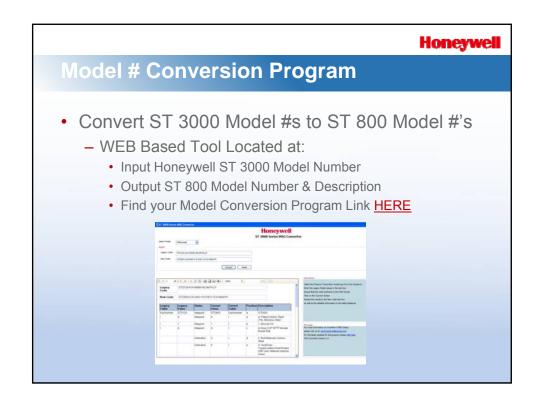


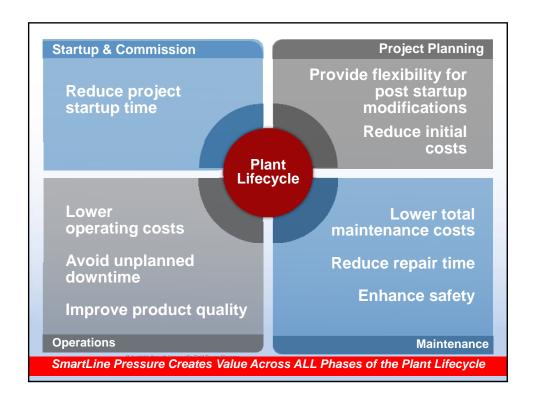




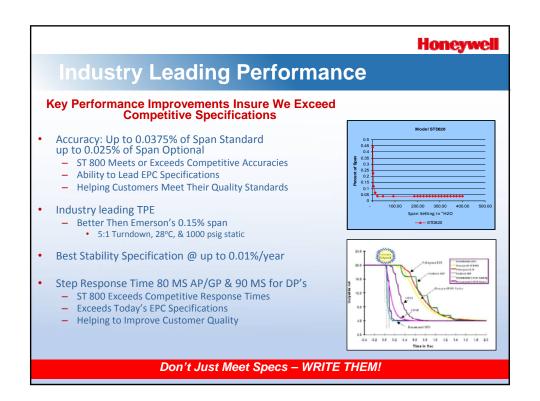












# **Total Cost of Ownership** Simple Modular Design Increasing distributors flexibility and responsiveness. Meeting a wider variety of customer needs w/o added

- Minimizing customer spare parts inventory and associated costs to carry.
- Improving the efficiency of maintenance organizations.
- Reducing process down times during maintenance
- Platform for future product development (Temp, Analytical, Level & Wireless)
- Provides lowest cost of ownership









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### **HMI Improvements**

- Increasing safety for plant and maintenance
- Improving, operations, and maintenance

# **Better Together**

- · Transmitter messaging
- Maintenance mode indication
- Tamper alerts
- FDM area health views
- · Comprehensive integration testing



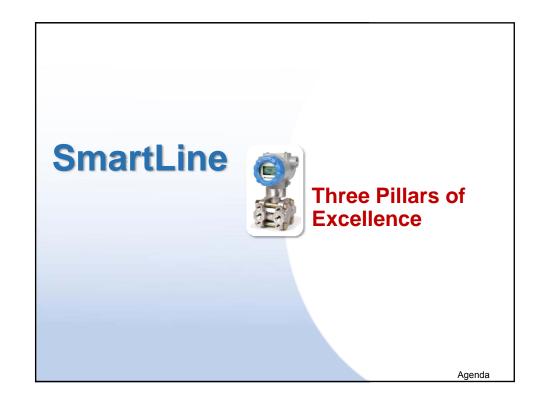
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# **SmartLine and Experion PKS** Integration **Advantages**

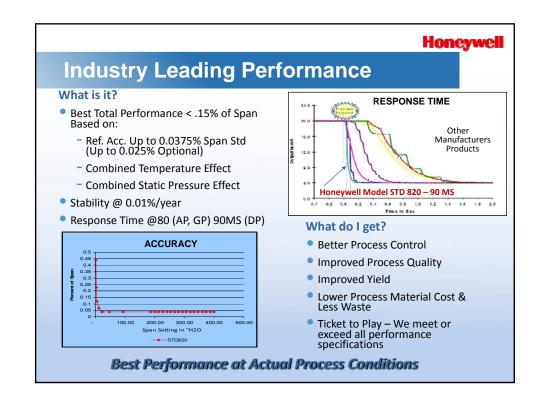
- Reduced Maintenance
- Less Downtime
- Faster Commissioning
- Improved Plant Safety

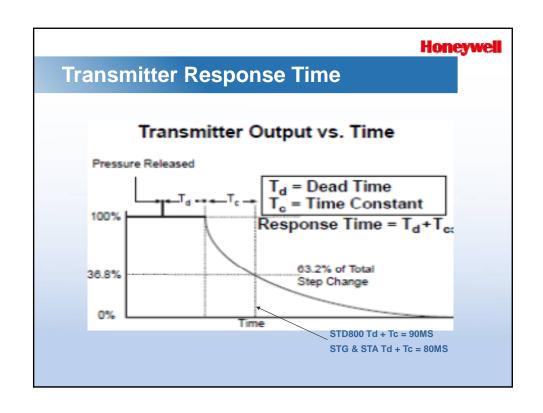
Agenda

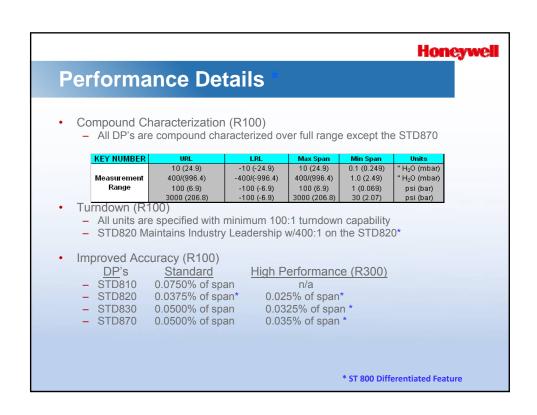












# Performance Details

Improved Accuracy (cont'd)

 GP's
 Standard
 High Performance (R300)\*

 - All STG8XX
 0.055% of span
 0.025% of span \*

 - All STG8XL
 0.055% of span
 0.025% of span (except STG89L) \*

 - STG89L
 0.055% of span
 0.040% of span

 AP's
 Standard
 High Performance (R300)\*

 - All STA8XX
 0.055% of Span
 0.025% of span \*

 - All STA8XL
 0.055% of span
 0.025% of span \*

Response Times \* (R100) HART DE FF

- Differential Pressure 90MS \* 90MS \* System Dependant

- Gauge Pressure 80MS \* 80MS \* System Dependant

- Absolute Pressure 80MS \* 80MS \* System Dependant

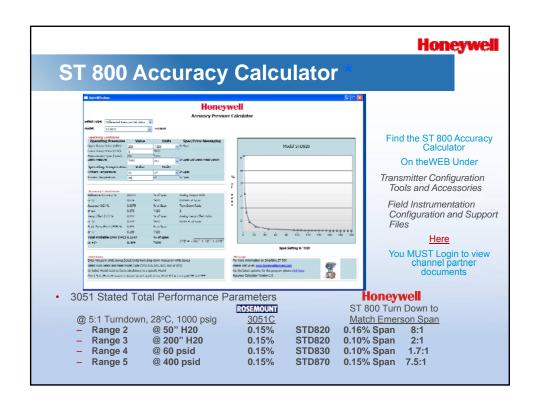
\* ST 800 Differentiated Feature

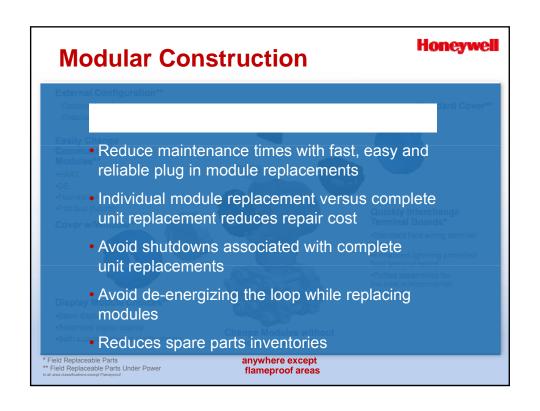
### Honeywell

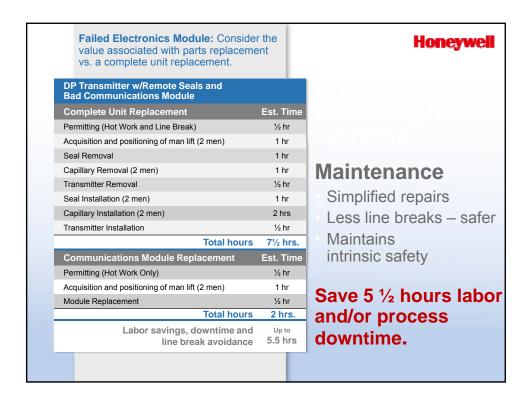
## **Performance Details**

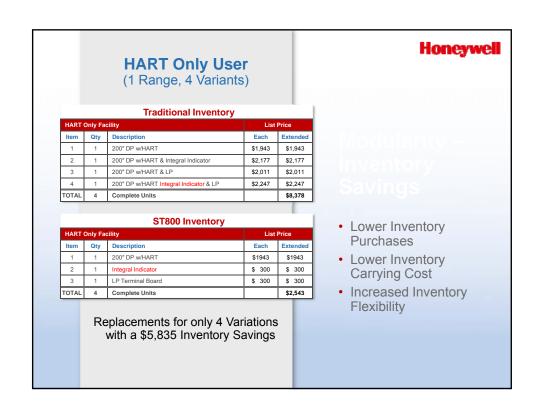
- Static Pressure Available as a HART Output Variable
  - Static Output Assignment is PV3 or Tertiary Value
    - PV1 is Differential, Gauge, or Absolute Pressure depending on transmitter type
    - PV2 is Meter Body temperature
    - PV3 is Static Pressure (DP only) \*
    - PV4 is Electronics/Housing temperature
  - Models STD820, 830, 870
    - Accuracy: +/- 2% of Static URL (4500psig +/- 90 psig)
    - Not PV Quality, but suitable for Static pressure Indication
      - Confirmation of head pressure on closed tank systems
      - Indication of static pressure on flow applications

\* ST 800 Differentiated Feature









# Improved HMI - Basic Display

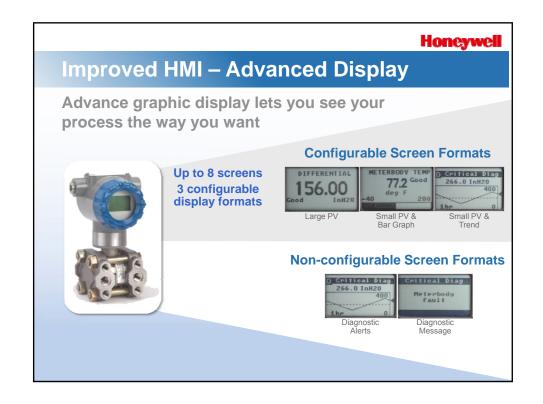
Basic display for basic process needs



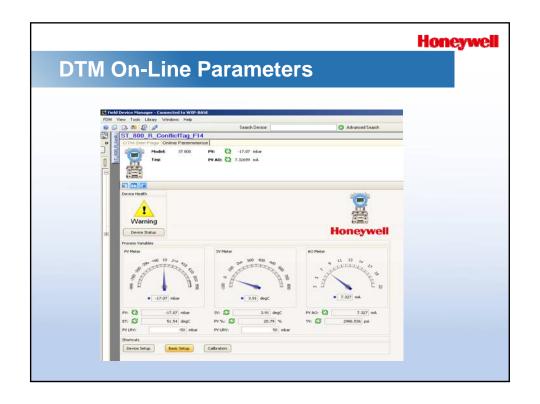
STATIC PRESSURE 367.6 PSI

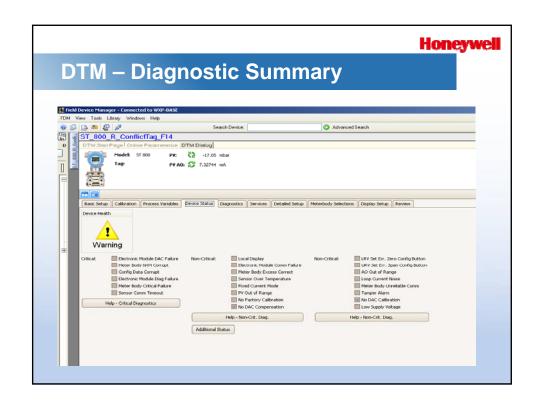
### **Display Characteristics**

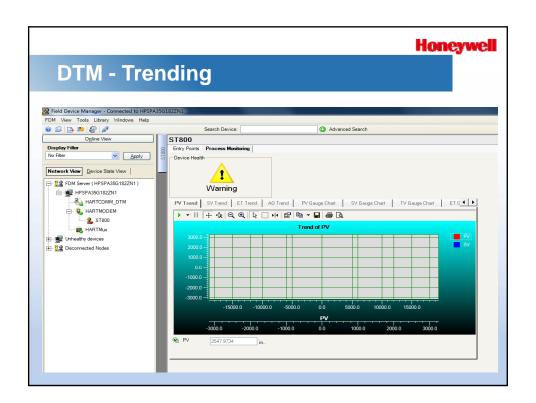
- 2 line 16 characters 4.13H x 1.83W mm
- · Standard units of measurement
  - Pa, KPa, MPa, KGcm2, TORR, ATM, inH2O, mH2O, bar, mbar, inHg, FTH2O, mmH2O, MMHG, & PSI
- Square root indication
- Out of range indication
- Supports 3-button configuration

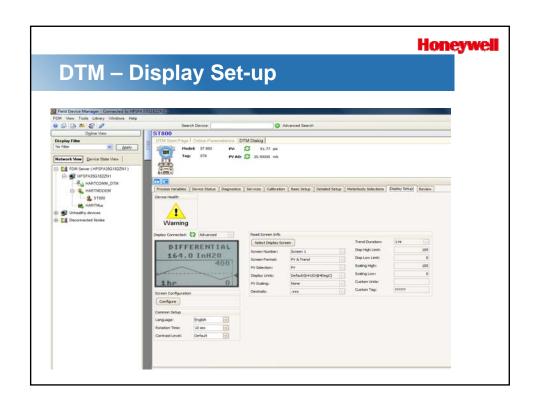


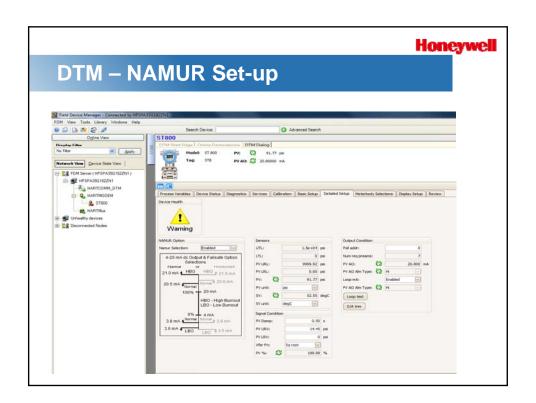


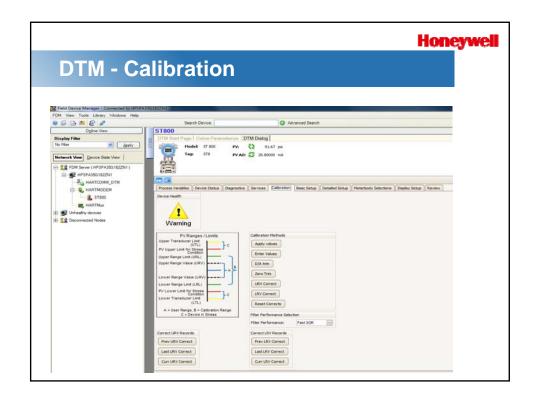






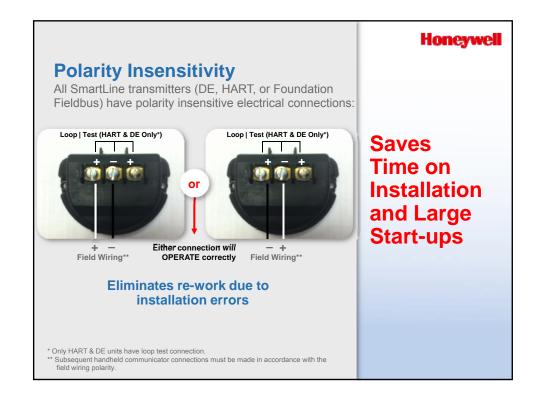






# Field Device Manager Express Access and management simplification of HART and Profibus smart instrument assets: - configuration - diagnostics - maintenance PC Based – No separate server or Experion connection required Windows 7 Compatible DD/EDDL or DTM Compatible Single or multiple instrument connectivity (external modem, mux, gateway) Provides instrument configuration and management tasks/functions Off-line and on-line instrument configuration Supports download of stored configurations to instruments in the field





# **Better Together**

- · Transmitter messaging
- · Maintenance mode indication
- Tamper alerts
- FDM area health views
- Comprehensive integration testing



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# SmartLine and Experion PKS Integration Advantages

- Reduced Maintenance
- Less Downtime
- Faster Commissioning
- Improved Plant Safety

# **Transmitter Messaging**

### What is it?

- Standard HART 7 Messaging Command
  - 32 Character String Length can be sent to transmitter and stored in memory
- Unique Ability to Display Messages on the Transmitter's Local Display \*
  - When the ST 800 Advanced Display is specified messages can be posted on the local display

### What do I get?

- · Faster Safer and Accurate Maintenance by:
  - Quickly Identifying Transmitter
  - Clear Task Identification
  - Eliminating Ambiguity and Potential Errors

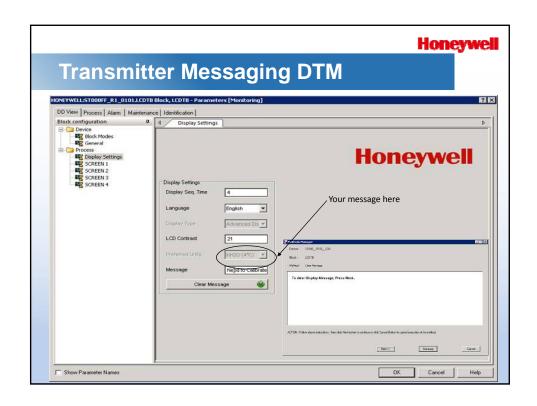
### When do I get it?

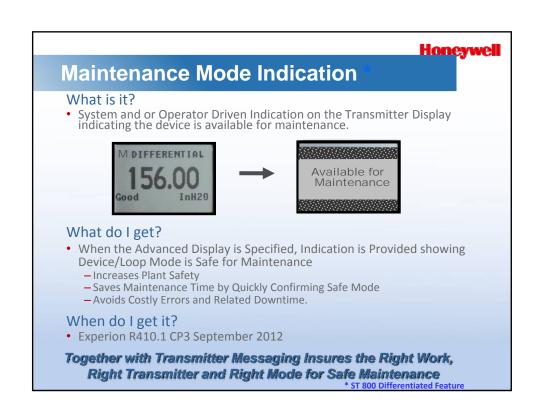
SmartLine R100

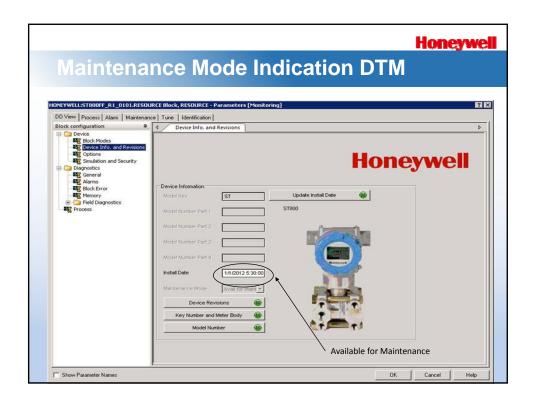
Transmitter Messaging Insures the Right Work on the Right Transmitter \*ST 800 Differentiated Feature

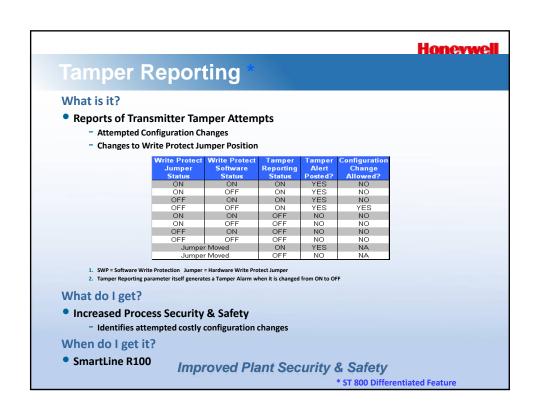
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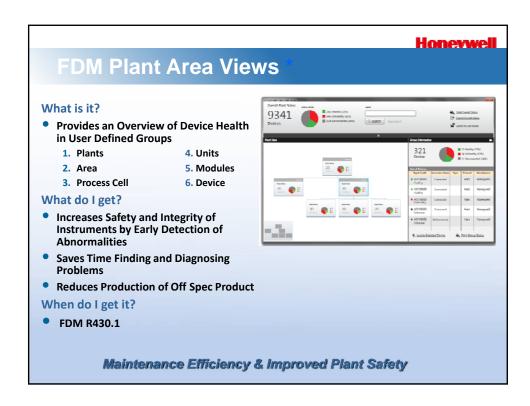


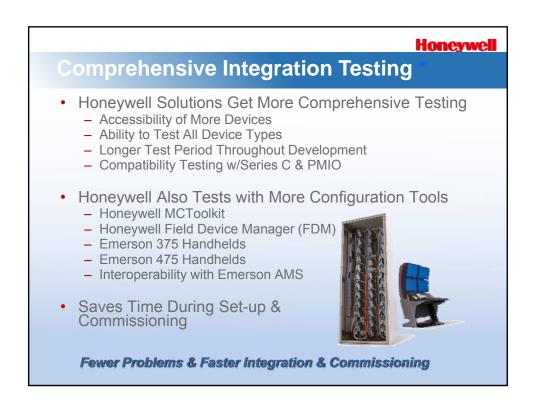










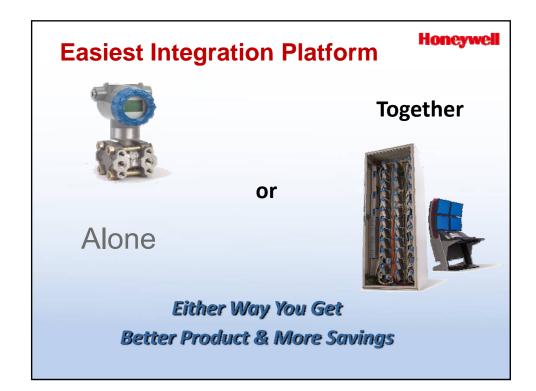


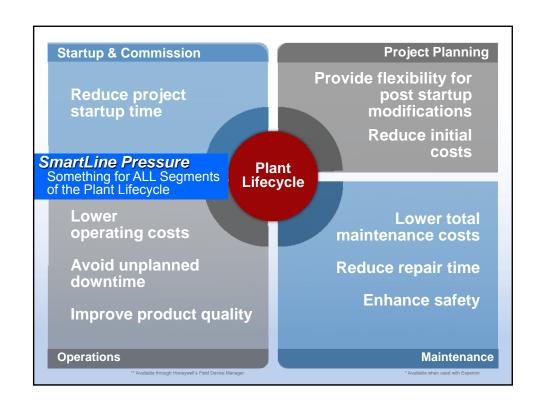
# Honeywell

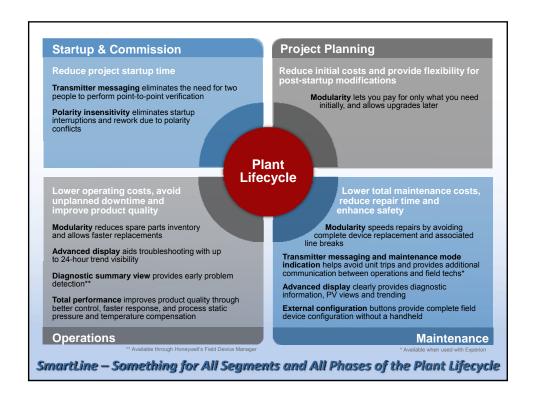
# **Easy Integration Platform Summary**

- Transmitter Display Messaging (Right Device/Right Action)\*
  - Provide transmitter positive identification and eliminate errors
  - Alert service techs of requested actionable activities
- Maintenance Mode Indicator (Avoid Costly Errors)\*
  - Transmitter (via integral indicator) displays when the operator has placed the loop in a mode safe for maintenance.
    - · Helps to avoid costly service tech errors
- Tamper Reporting\*
  - Reports write attempts to write protected devices.
- FDM Plant Area View (Faster Alerts/Speeds Maintenance Times)
  - Health Watch area summary screens for health monitoring
  - Detailed Diagnostic Data for field tech maintenance support
- Experion System Test (Lowers Integration Costs)\*
  - Extensive ST 800/Experion testing to assure trouble free integration.

\* ST 800 Differentiated Feature







## Honevwell

# **Other Product Improvements**

 STG830 & STG83L **SmartLine Release** 

 50 psig (3.5 bar) Dual head GP (R300)

- 50 psig (3.5 bar) In-Line GP (R300)

STA87L

- 3000 psia (210 barA) In-Line AP (R100)

Recently Released as part of the ST 3000 Line.

STG8XL & STA8XL

 – G ½ B Process Connections (R300)

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# **Other Product Improvements**

- **Materials & Connections** 
  - Process Wetted Materials SmartLine Release STG8XL with All Wetted (Bonnet & Diaphragm) HAST C (R300) STG8XL with G ½ B Male Connections (R300)
    - · STA822/824 with Tantalum Diaphragms (R100) • Gold Plated 316SS/Monel/HAST C all integrated into Table 1 selections (R100) Blind Heads & Vent/Drain Selections al Integrated into Table 1 (R100)
  - - Non-Wetted Material Selections
      - · Complete Line of Bolting Material (R100)
        - Carbon Steel, 316SS
        - Grade 660 NACE A286 Monel K500

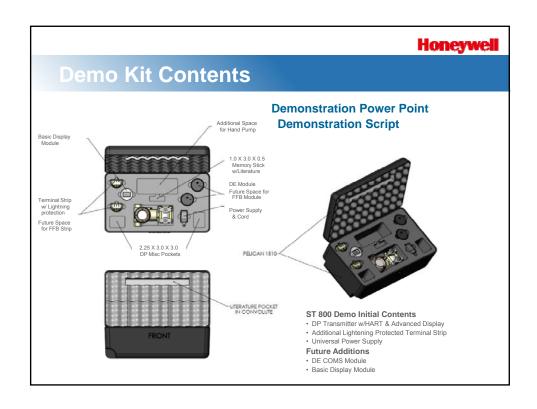
          - Super Duplex B7m
      - Housings
      - Polyester Coated Aluminum w/M20 & 1/2" NPT Connections (R100) Stainless Steel w/M20 & 1/2"NPT Connections · 316SS Flat & Angle Mounting Brackets • Silicone Oil DC704 & Neobee M-20 Fill Fluids (R300)

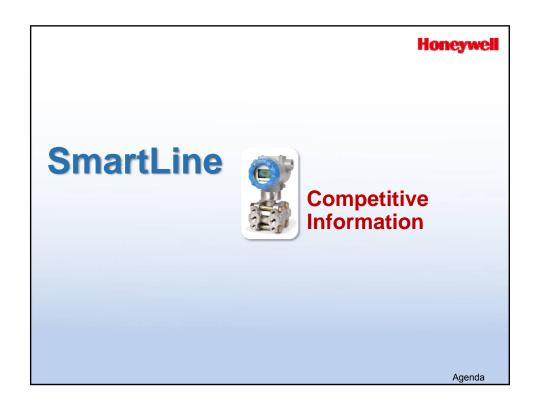
# Honeywell

# **Other Product Improvements**

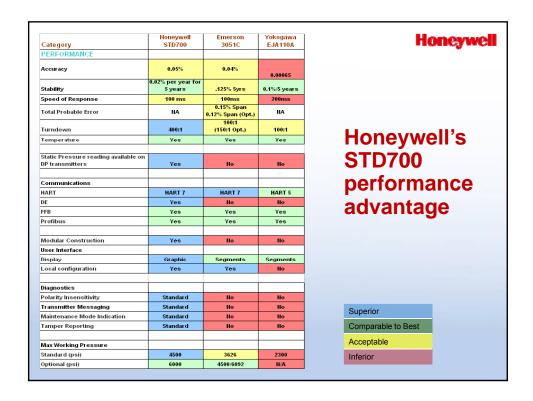
- Safety Ratings & Approvals
  - Flameproof, IS, Non-Incendive, & Dustproof for
    - R100
      - FM, CSA, ATEX, IECEx, NEPSI
    - R200
    - SAEx, INMETRO, GOST, KOSHA, CCoE
  - Sil 2/3 Compliance (Standard for HART units only)
    - Certified to IEC 61508 for non-redundant use in SIL 2 Safety Systems
    - Certified to IEC 61508 for redundant use in SIL 3 Safety Systems
    - TUV & Exida IEC 61508-1: 2010, IEC 61508-2: 2010, and IEC 61508-3: 2010
  - European Pressure Equipment Directive (PED) Compliance
    - Design Verification
    - Material Selection
    - Manufacturing Practices
    - · Qualification, Testing & Marking

# SmartLine Demonstration Kit & Hands On Workshop Agenda

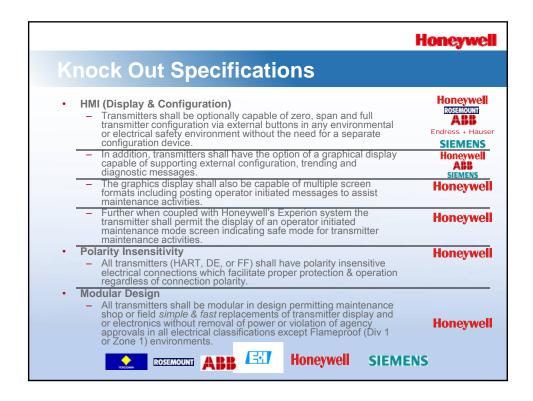




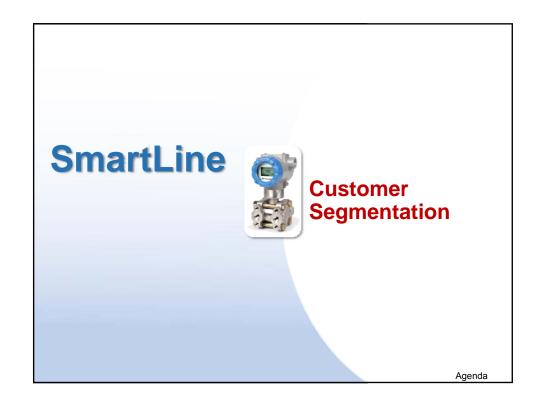
C-4	Honeywell	Emerson	Yokogawa	Honeyw
Category PERFORMANCE	STD800	3051S Ultra	EJX110	
PERFORMANCE	Up to 0.0375%		Up to 0.04%	
Accuracy		0.025%		
	0.025% (Opt.) 0.01% per year for		0.025% (Opt.)	
Stability	10 years	.2%/10 years	0.1% 10 years	
Speed of Response	80 ms	100ms	90ms	
Total Probable Error	0.12% Span	0.1% Span	0.12% Span	
Turndown	400:1	200:1	200:1	
Temperature	Yes	Yes	Yes	Honeywell's
				i ioneywen s
Static Pressure reading available on DP transmitters	Yes	No	Yes	_
DF transmitters	ies	110	165	STD800
Communications				
HART	HART 7	HART 5	HART 7	performance
DE	Yes	No	No	
FFB	Yes	Yes	Yes	advantage
Profibus	Yes	Yes	Yes	auvaniaye
Modular Construction	Yes	Yes	No	
User Interface				
Display	Graphic	Segments	Segments	
Local configuration	Yes	No	Ho	
Diagnostics				
Polarity Insensitivity	Standard	No	No	
Transmitter Messaging	Standard	No	Ho	Superior
Maintenance Mode Indication	Standard	No	Ho	
Tamper Reporting	Standard	No	Ho	Comparable to Best
Max Working Pressure				Acceptable
Standard (psi)	4500	3626	2300	
Optional (psi)	6000	4500/6092	N/A	Inferior



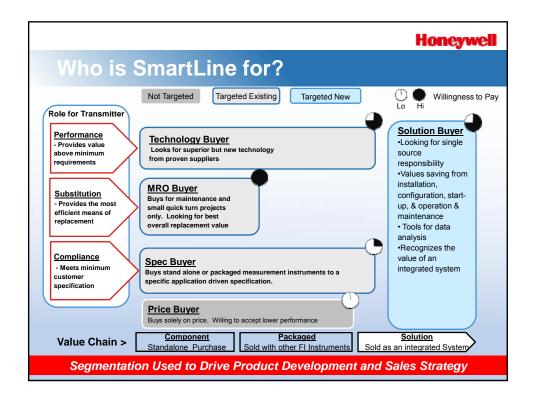
						H	ioneywell
Category	Emerson 3051C	Emerson 3051S Ultra	Yokogawa EJA110A	Yokogawa EJX110	Honeywell STD800	Honeywell STD700	
PERFORMANCE	30310	303 13 01114	LOATION	LOXIII	512000	315700	_
Accuracy	0.04%	0.025%	0.07%	Up to 0.04%	Up to 0.0375%	Up to 0.0375%	
				0.025% (Opt.)	0.025% (Opt.)	0.025% (Opt.)	
Stability	.125% 5yrs	.2%/10 years	0.1%/5 years	0.1% 10 years	0.01% per year for 10 years		N.
Speed of Response	100ms	100ms	200ms	90ms	80 ms	100 ms	
Total Probable Error	0.15% Span 0.12% Span (Opt.)	0.1% Span	HA	0.12% Span	0.12% Span	на	pari
Turndown	100:1 (150:1 Opt.)	200:1	100:1	200:1	400:1	400:1	
Temperature	Yes	Yes	Yes	Yes	Yes	Yes	
Static Pressure reading available on DP transmitters	No	No	Ho	Yes	Yes	Yes	omp
Communications							No.
HART	HART 7	HART 5	HART 5	HART 7	HART 7	HART 7	
DE	No	Ho	No	No	Yes	Yes	
FFB	Yes	Yes	Yes	Yes	Yes	Yes	
Profibus	Yes	Yes	Yes	Yes	Yes	Yes	آع
Modular Construction	No	Yes	No	No	Yes	Yes	2
User Interface		100				100	<b>(1)</b>
Display	Segments	Segments	Segments	Segments	Graphic	Graphic	<b>9</b>
Local configuration	Yes	Ho	No	No	Yes	Yes	>
Diagnostics		••-			Otensdeed	0444	
Polarity Insensitivity	Ho	Ho	Ho	Ho	Standard	Standard	
Transmitter Messaging  Maintenance Mode Indication	No No	Ho Ho	No No	No No	Standard Standard	Standard Standard	Superior
Maintenance Mode Indication Tamper Reporting	No	Ho Ho	Ho Ho	Ho Ho	Standard Standard	Standard	
ramper reporting	1,0	110	140	110	Stantial d	Standard	Comparable to Be
Max Working Pressure							Acceptable
Standard (psi)	3626	3626	2300	2300	4500	4500	lafada.
Optional (psi)	4500/6092	4500/6092	N/A	N/A	6000	6000	Inferior



# Honeywell **Knock Out Specifications Safety Tamper Alert** In addition to optional write protection prohibiting system or manual writes, when integrated with Experion the transmitter shall also incorporate a Tamper Alarm which advises operators and or maintenance personnel regarding attempts to change or overwrite protected devices. Honeywell **Transmitter Messaging** Honeywell Transmitters shall be capable of receiving a standard HART XX command with a 32 character message and posting the message on the transmitter display Static Pressure & Temperature Compensation **Honeywell** Differential pressure transmitters shall have the ability to compensate for both static pressure and temperature 张 Static pressure and meter body temperature shall be available on the device's display as well as digitally via HART protocol **Total Probable Error (TPE) Honeywell** Transmitters shall be capable of TPE of up to 0.12% of span over a 10:1 turndown and with temperature shifts up to 28°C and static pressures up to 1000 psig. ROSEMOUNT Honeywell ROSEMOUNT ABB



# Segmentation What is it • Segmentation/Grouping of customers by their buying criteria • Alignment of product features, benefits and value with that buying criteria How can it help • Segmentation helps insure we match the meaningful aspects of our products with our customers' needs



# How to Sell - Spec Buyer

**Spec Buyer** 

"I have a minimum set of specifications for my process."

### Characteristics/Customer Needs

- Must meet a set of minimum competitive project specs
- · Limited Qualified Suppliers
- · Long Term Product Reliability
- · Faster Response Time
- · High Accuracy Measurement
- · Reduce Project Specification Time
- Example Daelim Industries, Air Liquide, Praxair, EPCs

# What do they typically Buy?

- Emerson 3051C / 2051C
- Yokogawa EJA 100
- · Honeywell ST3000 Series

### Pricing Strategy?

 Competitive bid after validation of compliance with customer specifications.

### How We Win?

- "ST 800" w/advanced options to write "lockout" or competitor limiting specs.
  - Response Time, Turndown, Advanced Display, Local configuration vs. EMR & YOK
- Position ST700 fighting tier when minimum bid specs are written

# How to Sell - Tech Buyer

**Tech Buyer** 

"I need a product from a proven supplier with advanced features for improving my process and associated cost efficiencies"

### Characteristics/Customer Needs

- Minimize Unscheduled Process Downtime
- Root Cause Failure Analysis
- Understand Wear & Tear on Plant
- · Check Engine Light
- Intuitive Configuration and Display
- Better Total Performance
- Example Shell, Netherlands; BP, Wintershall

### What do they typically Buy?

- Emerson 3051S Ultra
- Yokogawa EJX100
- Honeywell Series 100

# **Pricing Strategy?**

Get price for differentiated offerings of value.

### How We Win

- Position the "ST 800" w/advanced options:
  - · Advanced Display
  - Local HMI
  - · High Accuracy , TPE, & response times
  - Messaging, Polarity insensitivity etc
  - Advanced Diagnostics
- Write the spec for the ST 800
- Promote ability for future technology upgrades with modularity

# How to Sell – MRO Buyer

### **MRO Buyer**

"I need to maintain my plant when product needs maintenance or replacement."

### Characteristics/Customer Needs

- · Reduce Maintenance Costs
- · Reduce Configuration Costs
- · Fast (product replacement) response
- · Local support
- Examples Grace, Baltimore; Sunoco, Philadelphia, Maintenance shop in a plant

# What do they typically Buy?

- · Emerson 3051C / S
- Yokogawa EJA/X 100
- · Honeywell ST3000 Series

### **Pricing Strategy?**

- List price depending on opportunity size
- Premiums for delivery where possible
- Established channel discounts (via distribution)

### How we win?

- Introduce the value added features for MRO
  - Polarity insensitivity, local configuration, maintenance mode indication, extended warranty, tamper alerts, long term stability
- Promote reduced inventory costs provided by modularity

# **How to Sell – Solution Buyer**

### **Solution Buyer**

"I have a substantial new process or plant upgrade and need overall system support".

### Characteristics/Customer Needs

- · Prefers single source responsibility
- · Time savings on installation
- Time savings on product & system configuration
- · Time savings on start-up
- Reduced overall operational costs
- Overall simplicity and ease of integration
- Examples Pulcra Chemical, Turkey; Petroleum Dev of Oman; Tebodin, Oman; Exxon Mobil, Petrobas

### What do they typically Buy?

- Emerson 3051S or 3051C
- Yokogawa EJA 100 or EJX 100
- ABB 266 Series
- Honeywell ST3000

### Pricing Strategy?

- Lead with "ST 800" Integration Savings Opportunities:
- · Value sell cost savings driven by:
  - Transmitter Messaging
  - Maintenance Mode Indication
  - Tamper Alerts
  - Polarity Insensitivity
  - Advanced Display and Local HMI

### How we win?

- Promote Experion Integration Features
- Promote modularity to reduce additional inventory



# **Primary External Tactics**

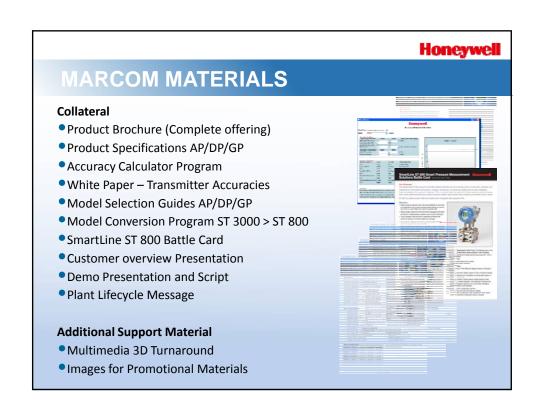
# Honeywell

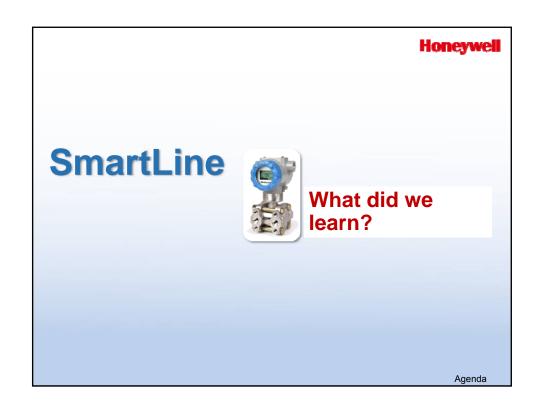
**Awareness** 

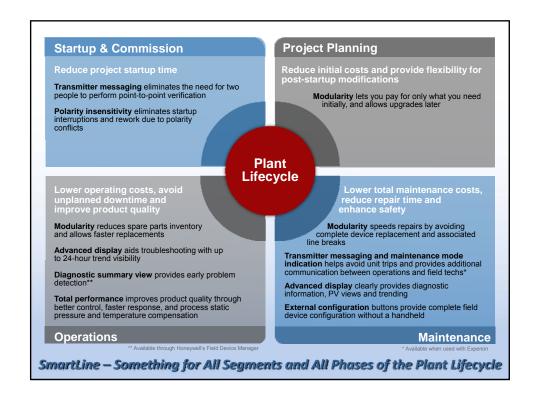
Interest

- · Public Relations Oct
  - Press conference and release/fact sheet
  - Equip channel partners with media kits for local media
  - Byline articles
- · Advertising Oct
  - Focus on digital advertising direct traffic to landing page and lead generation
- Web page for multimedia assets sales leads Oct
- · Online tools and visual messages Oct
  - Accuracy calculator, model number generator
  - Interactive modules to highlight differentiation
- Direct Marketing Oct
  - Email campaigns lists from channel partners, Siebel, buy ISA list, etc.
  - Webinars channel partners hosting
- Proof collateral, case studies and WPs all the time









## **SmartLine Pressure Transmitter**

# Honeywell

# **Better On Its Own**

Reduced Inventory Costs
Quicker and Easier Project Start Ups
Flexible Platform for Technology Upgrades
Reduced Operating Costs
Avoid Unplanned Shutdowns
Lower Maintenance Costs
Improve Product Quality
Improved Safety



**Even Better Together** 

# Honeywell

# **Call to Action**

- Get price by selling the additional value of SmartLine
  - Performance, System Integration, Modularity, etc.
- Start introducing SmartLine to your current customers TODAY.
  - Upsell to the new platform
  - Migrate from ST3000 to SmartLine
- Position SmartLine in all project pursuits moving forward.
  - Do not position ST3000 unless delivery is required before features are available on SmartLine
- Use SmartLine to break in to competitive held accounts and grow share in your territory

# End of Presentation