

Rosemount 3095FB

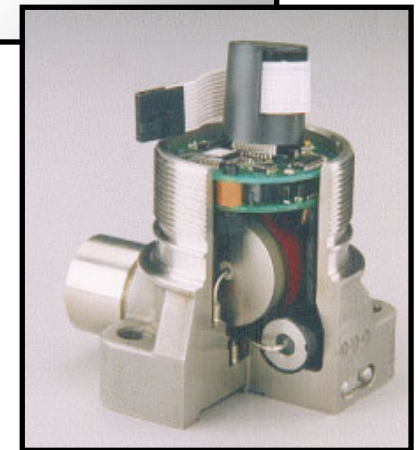
Achieving Better Measurement
Solutions for Your *Modbus* Needs

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3095FB Based on Industry-Proven 3051C Platform

- Proven installed base
 - Released 1995
- Scalable performance
 - Ultra-For-Flow performance (Jan. 2006)
- Industry's only **TRUE** multivariable gage pressure sensor
- Hermetically sealed
- Calibrated
- Leak-tested
- Coplanar design

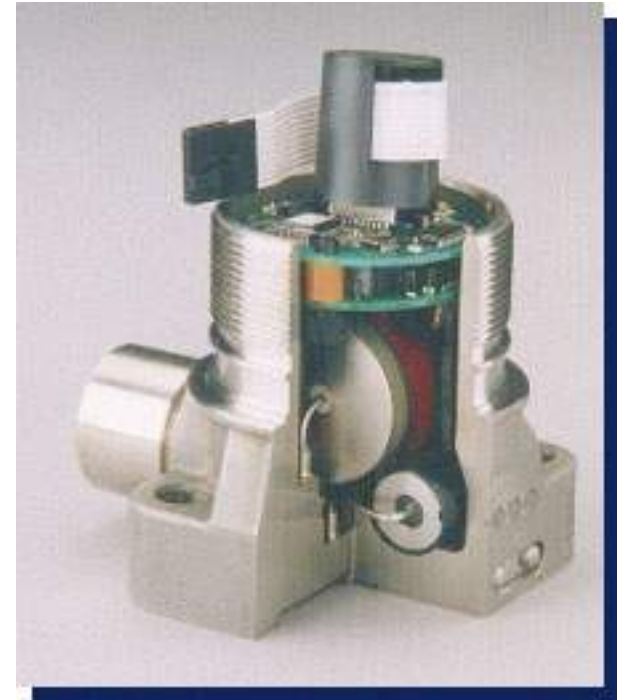


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True GP Output Makes a Difference

- Plant standard for over 90% of process industry applications
 - Well understood
 - Easier & lower cost to calibrate
 - Not affected by swings in barometric pressure
- DCS & PLC algorithms programmed for GP input...costly to re-program
- Many non-custody transfer applications call for GP measurement



Coplanar Platform Enables Direct Mount Flexibility

Enables Integrated DP-Flowmeters



Supports Any Primary Element



HookUps



Manifolds



Flanges

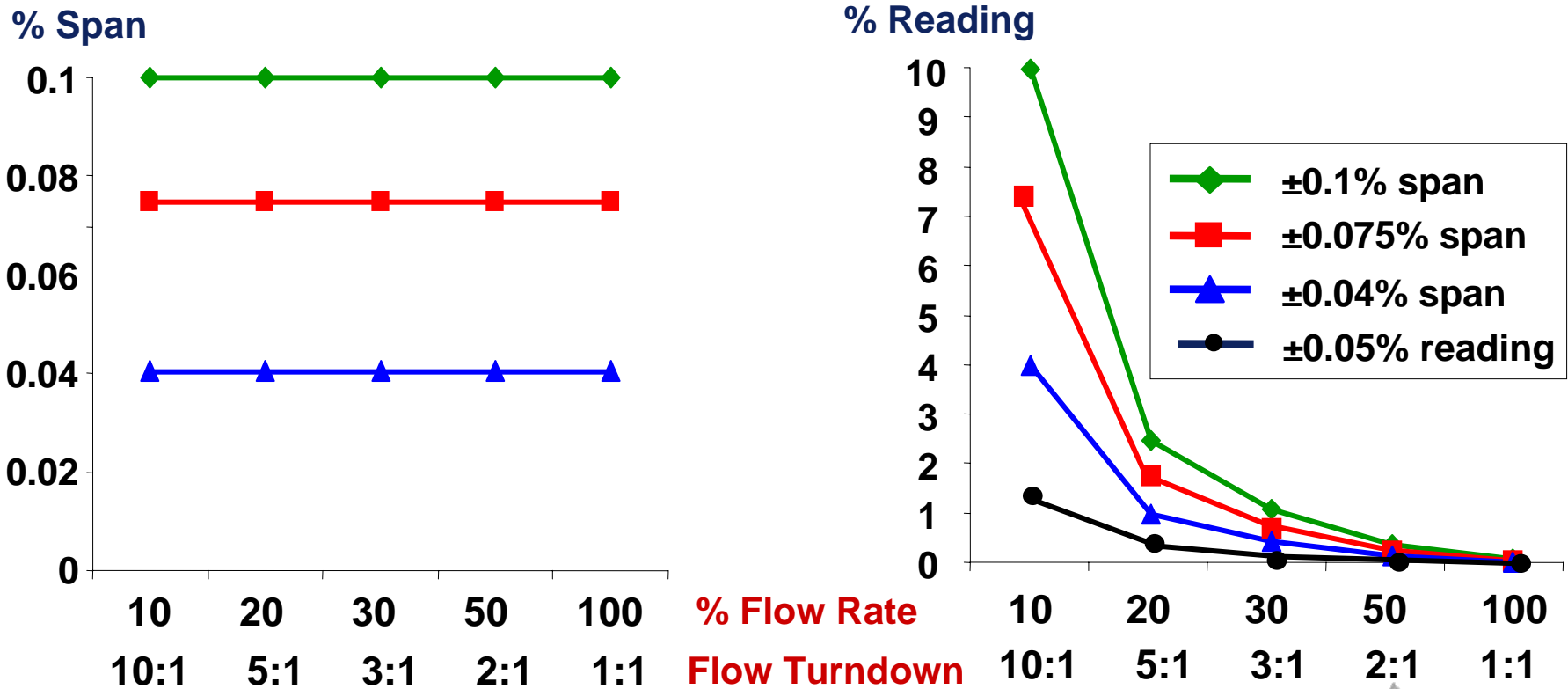


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3095 Ultra for Flow Offers Best-in-Class Performance

Transmitters Specified as % Reading Perform Better over Wide Flow Turndowns



3095FB Provides Cost-Effective Measurement Solution

- 3-in-1 Capabilities Reduces Installed Costs
 - Fewer devices to purchase, maintain, troubleshoot
- Available as an Engineered Assembly
 - Transmitter, primary element, connections, meter run all available from a single purchase order
 - Shipped precalibrated, leak tested, ready-to-install
- Ultra-For-Flow provides unprecedented accuracy for custody transfer applications



Competitive Products do Not Compare



Rosemount 3095FB



Foxboro IMV25

DP Acc:	0.05% of Reading	0.05% of Span
SP Sensor:	AP / True GP	AP Only
Proven Installation Base	✓	
Flowmeter Assemblies	✓	
Stability	0.25% Total for 10 Years	0.05% Per Year for 5 Years
Warranty	12 Years	5 Years
Transient Protection	6000V, 2000A	2000V
Ambient Temp Effect	0.05% of Reading per 28 deg. C	0.03% URL +0.06% Reading for only 28 deg. C
Static Pressure Effect	0.05% of Reading per 68,9 bar	0.1% of Reading for only 68,9 bar
Spec Conformance	3-Sigma	

Foxboro IMV25 Considerations

Static Pressure Sensor

- AP Sensor Only
- For GP readings, user-entered barometric constant
- Variations as atmospheric pressure changes

Limited Transient Protection

- 3095FB Transient Protection 3X as strong as IMV25
- Foxboro recommends use of additional transient protection



Newly Released Product

- Oct. 2004 release
- Limited Modbus Installation Base
- Unpublished specification conformance

Limited Total Performance

- Total performance specs apply to narrow operating range:
 - ± 28 deg. C
 - $\pm 68,9$ bar
- Stability spec only good at reference conditions

Competitive Products do Not Compare



Rosemount 3095FB Control Microsystems 4102MVT

DP Acc:	0.05% of Reading	0.05% of Span
SP Sensor:	AP / True GP	AP Only
Proven Installation Base	✓	
Flowmeter Assemblies	✓	
Stability	0.25% Total for 10 Years	0.05% Per Year for 5 Years
Warranty	12 Years	2 Year
Transient Protection	6000V, 2000A	?
Ambient Temp Effect	0.05% of Reading per 28 deg. C	0.0625% URL +0.125% Reading for only 55 deg. C
Static Pressure Effect	0.05% of Reading per 68,9 bar	0.1% of Reading for only 68,9 bar
Spec Conformance	3-Sigma	

Control Microsystems 4102MVT

Static Pressure Sensor

- AP Sensor Only

Limited Product Offering

- No Breadth of offering
- Transient Protection ???
- Product Options???



Newly Released Product

- Private Labeled Foxboro transmitter
- Virtually same product as Foxboro IMV25
- “additional” functionality (Ethernet, etc.) used for integration with other Control-Micro products
- Small installed base
- No proven MV record

Limited Total Performance

- Total performance specs apply to narrow operating range:
 - ± 50 deg. F
 - ± 1000 psi.
- Stability spec only good at reference conditions

Competitive Products do Not Compare



Rosemount 3095FB



ITT Barton / NuFlo MVX II

DP Acc:	0.05% of Reading	0.05% of Span
SP Sensor:	AP / True GP	?
Proven Installation Base	✓	
Flowmeter Assemblies	✓	
Stability	0.25% Total for 10 Years	?
Warranty	12 Years	?
Transient Protection	6000V, 2000A	?
Ambient Temp Effect	0.05% of Reading per 28 deg. C	?
Static Pressure Effect	0.05% of Reading per 68,9 bar	?
Spec Conformance	3-Sigma	?

NuFlo MVT II

Company Instability???

- ITT-Barton changed to Barton Instrument Systems
- Barton Instrument Systems bought by NuFlo Measurement Systems in June 2003

Limited Product Offering

- No Breadth of offering
- Transient Protection ???
- ATEX Approvals???
- Product Options???
- NO LCD Display
- Stripped-down version of Foxboro / Control Micro transmitter



Newly Released Product

- Brand new product (release 1 ago)
- Same sensor, housing as Foxboro / Control Micro / Invensys

Limited Total Performance

Almost no published specs!

Maximum Operating Conditions

Differential Pressure (in. H ₂ O)	Static Pressure (PSIA)
30	100
200	300
200	500
200	1500
300	1500
400	1500
840	300
840	1500

This is all they publish...

Accuracy

- Differential Pressure: +/- 0.05% of span
- Static Pressure: +/- 0.05% of span
- Process Temperature: +/- 0.5°F

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All 3 Products are Virtually the Same

- Foxboro / Control Microsystems / NuFlo all use same sensor module
- Product Differentiation???



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Only the Rosemount 3095 Offers the Complete Package

Static Pressure Sensor

- Separate AP and GP sensor offering
- GP sensor not affected by changes in barometric pressure
- GP can easily be calibrated – no vacuum pumps required

Scalable Performance

- Standard and Ultra-For-Flow Performance Options
- Flowmeter Assemblies
 - Standard and Conditioning Orifice Primary Offering
 - Engineered Assemblies

Rosemount Quality

- Proven Customer Installation Base
- No.1 in Process Instrumentation (75% MV market share)
- Global Service

Unmatched Performance

- 3-Sigma Conformance
- Complete Performance Specifications
 - 0.05% of DP Reading
 - 10-Year Stability at Process Conditions
 - 12 Year Warranty
 - Transient Protection for up to 6000V, 2000A
 - P&T effects specified over entire range



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