

# **Technical Information**

# MVX700 SmartLine Multivariable Meter Body Specification 34-ST-03-112



## Introduction

The MVX700 series meter bodies are based on the same proven technology as the Honeywell ST 700 SmartLine transmitters and are capable of measuring both differential and static pressure (absolute). With the enhanced accuracy of the static pressure measurement the MVX series meter bodies are suitable for integration into systems requiring process measurements for both differential and static pressure. Accuracy and dual measurement capability make these meter bodies an excellent choice as sensors for flow computers. The MVX provides a serial protocol (SPI) interface signal providing fully characterized and calibrated outputs for differential pressure, static pressure, and meter body temperature.

# **Best in Class Features:**

- Accuracies up to 0.0525% standard
- Stability up to 0.0625% of URL per year for five years
- Compound Characterized for reverse flow or dead leg applications
- Fully compensated and calibrated outputs
- Rangeability up to 400:1 for differential pressure, 15:1 for absolute pressure
- Response time 100ms
- World class overpressure protection
- Wide variety of material selections including NACE compatibility for non-wetted and/or process wetted parts



Figure 1 -MVX700 Meter Body

## Specifications:

Detailed specifications regarding the mechanical, electrical and software interface information required for OEM implementation are available from Honeywell. To obtain this information please contact your local sales representative or our technical support group at 1-800-423-9883 and request the "MVX Interface Document #50087300.

# Range & Span Limits:

Model	URL	LRL	Max Span	Min Span
PV1 - DP	"H <sub>2</sub> O (mbar)	"H <sub>2</sub> O (mbar)	"H <sub>2</sub> O (mbar)	"H₂O (mbar)
MXA745	400 (1000)	-400 (-1000)	400 (1000)	1.0 (2.5)
PV2 - SP	psiA (bara)	psiA (bara)	psiA (bara)	psiA (bar)
MXA745	1500 (104)	0 (0)	1500 (104)	100 (7.0)

# **Performance Specifications**

# Reference Accuracy <sup>2</sup> (conformance to +/-3 Sigma)

TARLE I

	TABLET						
					Maximum		Reference
					Turndown	Stability	Accuracy <sup>1</sup>
	Model	URL	LRL	Min Span	Ratio	(% URL/Year)	(% Span)
PV1	MXA745	400 in H <sub>2</sub> O/1000mbar	-400 in H <sub>2</sub> O/-1000mbar	1 in H <sub>2</sub> O/2.5mbar	400:1	0.0625	0.0525%
PV2	MXA745	1500 psiA/104 bara	0 psiA/0 bara	100 psiA/7.0 bara	15:1	0.008	0.0550%

Zero and span may be set anywhere within the listed (URL/LRL) range limits

# Accuracy at Specified Span, Temperature and Static Pressure (Combined Zero & Span, conformance to +/-3 Sigma)

TABLE II

	IABLE II									
_			Accuracy <sup>1</sup> (% of Span)					ture Effect n/50°F)	Eff	e Pressure ect n/1000psi)
	Model	URL	For Spans Below  A B C			D	E	F	G	
PV1 Diff	MXA745	400 in H <sub>2</sub> O	16:1	0.015	0.0375	25	0.150	0.05	0.25	0.05
PV2 Stat	MXA745	1500psiA	6:1	6:1 0.015 0.04 250				0.05	n	/a
			Turn Down Effect				Temp	Effect	Static	Effect
			$\pm \left[ A + B \left( \frac{C}{Span} \right) \right]$				_ \	URL Span	$\pm \left[ F + G \left( \right. \right] \right]$	$\left[\frac{URL}{Span}\right]$
				% S	pan		% Span per	28°C (50°F)	% Span pe	er 1000 psi

# **Total Performance (% of Span):**

PV1 Total Performance =  $\pm 1/\sqrt{(Accuracy)^2 + (Temp Effect)^2 + (Static Line Pressure Effect)^2}$ 

**Total Performance Examples:** (5:1 Turndown, up to 50  $^{\circ}$ F shift & up to 1000 psi Static Pressure)

MXA745 @ 80" H<sub>2</sub>O: 0.395 % of span

PV2 Total Performance = +/-  $\sqrt{(Accuracy)^2 + (Temp Effect)^2}$ 

Total Performance Examples: (5:1 Turndown, up to 50 °F shift)

MXA745 @ 300 psia: 0.305 % of span

# **Typical Calibration Frequency:**

Calibration verification is recommended every two (2) years

## Notes:

- 1. Terminal based accuracy Includes the combined effects of linearity, hysteresis and repeatability
- 2. For zero based spans and reference conditions of 25°C (77°F), 0 static pressure, 10 to 55% RH and 316SS barrier diaphragm.

# **Operating Conditions – All Models**

Parameter	Reference Condition		Rated C	ondition	Operativ	e Limits		Transportation and Storage	
	°C	°F	°C	°F	°C	°F	°C	°F	
Ambient Temperature	25±1	77±2	-40 to 85	-40 to 185	-40 to 85	-40 to 185	-55 to 120	-67 to 248	
Meter Body Temperature <sup>2</sup>	25±1	77±2	-40 to 110	-40 to 230	-40 to 125	-40 to 257	-55 to 120	-67 to 248	
Humidity %RH 10 to 55		0 to 100		0 to 100		0 to 100			
Vac. Region – Min. Pressure mmHg absolute inH <sub>2</sub> O absolute	Atmospheric 25 Atmospheric 13		-	2 (short term ) <sup>3</sup> 1 (short term ) <sup>3</sup>					
Maximum Allowable Working Pressure (MAWP) <sup>4,5</sup>	Standard:								
(MVX700 products are rated to Maximum Allowable Working Pressure. MAWP depends on Approval Agency and transmitter materials of construction.)	MXA745 =3000		psi, 210 bar						

<sup>&</sup>lt;sup>2</sup> For CTFE fill fluid, the rating is -15 to 110°C (5 to 230°F)

# Materials Specifications (see model selection quide for availability/restrictions with various models)

Parameter	Description		
Barrier Diaphragms Material	316L SS, Hastelloy <sup>®</sup> C-276 <sup>2</sup> , Monel <sup>®</sup> 400 <sup>3</sup> , Tantalum		
Process Head Material	316 SS <sup>4</sup> , Carbon Steel (Zinc-plated) <sup>5</sup> 316 SS <sup>4</sup> , Carbon Steel (Zinc-plated) <sup>5</sup> , Hastelloy C-276 <sup>6</sup> , Monel 400 <sup>7</sup>		
Vent/Drain Valves & Plugs 1	316 SS <sup>4</sup> , Hastelloy C-276 <sup>2</sup> , Monel 400 <sup>7</sup>		
Head Gaskets	Glass-filled PTFE standard. Viton® and graphite are optional.		
Meter Body Bolting	Carbon Steel (Zinc plated) standard. Options include 316 SS, NACE A286 SS bolts, Monel K500, Super Duplex and B7M.		
Optional Adapter Flange and Bolts	Adapter Flange materials include 316 SS, Hastelloy C-276 and Monel 400. Bolt material for flanges is dependent on process head bolts material chosen. Standard adaptor gaskets material is glass-filled PTFE. Viton o-ring and graphite gaskets are optional.		
Fill Fluid	Silicone 200 oil or CTFE (Chlorotrifluoroethylene).		
Net Weight	5.9 pounds (2.7 Kg).		

## notes:

<sup>3</sup> Short term equals 2 hours at 70°C (158°F)
4 MAWP applies for temperatures -40 to 125°C.

 $<sup>^{\</sup>rm 5}$   $\,$  Consult factory for MAWP of MVX700 meter bodies with CRN approval.

<sup>&</sup>lt;sup>1</sup> Vent/Drains are sealed with Teflon® <sup>3</sup> Monel 400 or UNS N04400

<sup>&</sup>lt;sup>2</sup> Hastelloy C-276 or UNS N10276

<sup>&</sup>lt;sup>4</sup> Supplied as 316 SS or as Grade CF8M, the casting equivalent of 316 SS.

<sup>&</sup>lt;sup>5</sup> Carbon Steel heads are zinc-plated and not recommended for water service due to hydrogen migration. For that service, use 316 stainless steel wetted Process Heads.

Hastelloy C-276 or UNS N10276. Supplied as indicated or as Grade CW12MW, the casting equivalent of Hastelloy C-276

Monel 400 or UNS N04400. Supplied as indicated or as Grade M30C, the casting equivalent of Monel 400

# **Mounting & Dimensional Drawings**

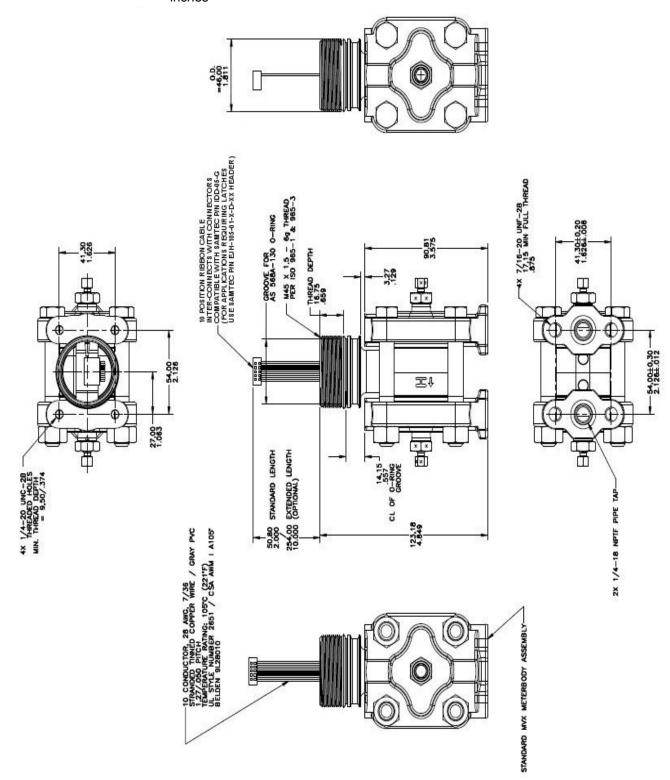


Figure 2 - Vertical Heads

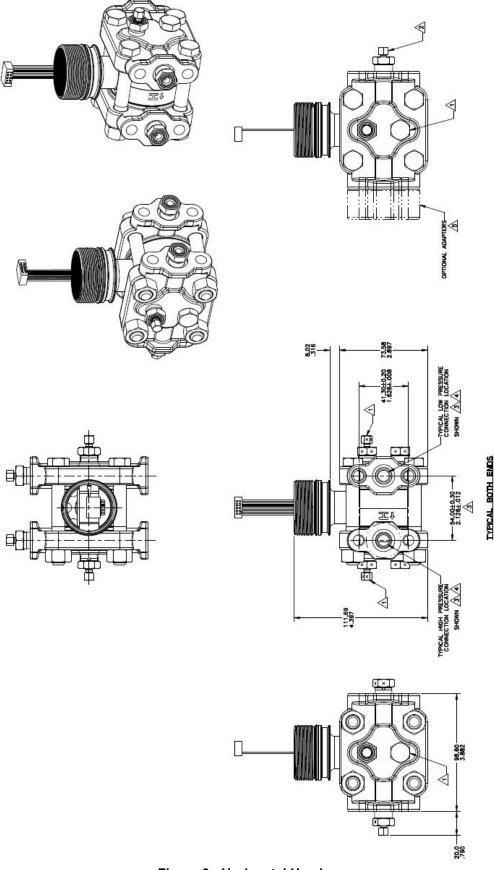


Figure 3 - Horizontal Heads

# **Model Selection Guide**

Model Selection Guides are subject to change and are inserted into the specifications as guidance only.

Prior to specifying or ordering a model check for the latest revision Model Selection Guides which are published at:

www.honeywellprocess.com/en-US/pages/default.aspx

# Model MVX700 Multivariable Pressure Meter Body Model Selection Guide



KEY NUMBER	Differential Pressure Range	Static Pressure Range		
Measurement	-400 to +400 In H20 / -1000 to +1000 mbar	0 to 1500 psia/0 to 104 bara		

Selection	
MXA745	$\forall$

Plated Carbon Steel	TABLE I	Process Head	Material		[	Diaphragm Material	
A. Process Wetted Heads & Diaphragm Materials  Also Stainless Steel  Also Steel  Also Steel  Also Stainless Steel  Also Steel  A					316L Stainles	s Steel	
A. Process Wetted Heads & Diaphragm Materials  316 Stainless Steel  316 Stainless Steel  4316 Stainless Steel  316 Stainless Steel  4316 Stainless Steel  4418 NPT Female  4418 None (1/4" NPTF female thread Std)  4418 None (1/4" NPTF female thread Std)  4418 Natherial Steel Stainless Steel  4418 Natherial St		Plated Carbo	on Steel		,	-276	
A. Process Wetted Heads & Diaphragm Materials    A		r lated Salbert Steel			Monel® 400		
Wetted Heads & Diaphragm Materials    Silicone Oil 200	a Process				Tantalum		
Diaphragm Materials  316 Stainless Steel  Hastelloy® C-276 Monel® 400 Tantalum  Hastelloy® C-276 Tantalum  Monel 400  Monel 400  b. Fill Fluid  c. Process Connection  1/4" NPT Female 1/2" NPT Female (DIN 19213)  Carbon Steel 316 SS Grade 660 (NACE A286) with NACE 304 SS Nuts Grade 660 (NACE A286) Bolts & Nuts Monel K500 Super Duplex B7M  Head Type  Vent/Drain Type  is ingle Ended Single Ended Single Ended Single Ended Single Ended Single Ended Single Ended Center Vent Dual Ended Dual Ended Dual Ended Sid Vent/Plug Side/End Matches Head Material¹  Teflon® or PTFE (Glass Filled) Viton® or Fluorocarbon Elastomer  Hastelloy® C-276 Monel® 400 Tantalum  Hastelloy® C-276 Tantalum  Monel #400  Monel #400  Monel #400  Match Head Std)  Vent Material **  Side Stainless Steel Only Dual Ended Center Vent End Stainless Steel Only Matches Head Material¹  Teflon® or PTFE (Glass Filled) Viton® or Fluorocarbon Elastomer					316L Stainles	s Steel	
Materials    Hastelloy C-276					,	-276	
Hastelloy C-276  Hastelloy® C-276  Tantalum  Monel 400  Monel 400  b. Fill Fluid  c. Process Connection  1/4" NPT Female 1/2" NPT Female (DIN 19213)  Carbon Steel 316 SS  Grade 660 (NACE A286) with NACE 304 SS Nuts  Grade 660 (NACE A286) Bolts & Nuts  Monel K500 Super Duplex B7M  Head Type  Vent/Drain Type Location  Vent Material  Single Ended Center Vent Dual Ended Dual Ended Standard Vent Center Vent End Matches Head Material  F. Gasket Material  Teflon® or PTFE (Glass Filled) Viton® or Fluorocarbon Elastomer							
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Material	f. Gasket						
Granhite	Material	Graphite					

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<sup>&</sup>lt;sup>1</sup>Except Carbon Steel Heads shall use 316SS Vent/Drain, Plugs & Adapters when required

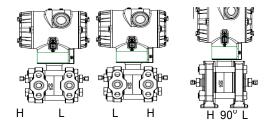
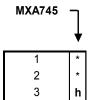


TABLE II	Meter Body & Connection Orientation					
Head/Connect	Standard	High Side Left, Low Side Right <sup>2</sup> / Std Head Orientation				
Orientation		Low Side Left, High Side Right <sup>2</sup> / Std Head Orientation				
Orientation	90/Standard	High Side Left, Low Side Right <sup>2</sup> / 90 <sup>0</sup> Head Rotation				



 $<sup>^{2}\,\</sup>mbox{Left}$  side/Right side as viewed from the customer connection perspective

TABLE III	PV1 CALIBRATION & ACCURACY SELECTIONS				
a. Accuracy and	Accuracy	Calibrated Range	# of Calibrations		
Calibration		None - No calibration required	None		
Calibration	Standard	Factory Std	Single Calibration		
		Custom (Unit Data Required)	Single Calibration		

0	*
Α	*
В	*

TABLE IV	OTHER Certifications & Options: (String in sequence comma delimited (XX, XX, XX,)
Additional Options	None: No additional options  NACE MR0175; MR0103; ISO15156 (FC33338) Process wetted parts only  NACE MR0175; MR0103; ISO15156 (FC33339) Process wetted and non-wetted parts  EN10204 Type 3.1 Material Traceability (FC33341)  Certificate of Conformance (F3391)  Calibration Test Report & Certificate of Conformance (F3399)  Certificate of Origin (F0195)  Over-Pressure Leak Test Certificate (1.5X MAWP) (F3392)  Cert Clean for O <sub>2</sub> or CL <sub>2</sub> service per ASTM G93  Extended Cable Length (10")

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FG	*	b
F7	C *	J
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F3	*	Ь
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F5	*	
TP	*	
OX	e *	
EL	*	

TABLE V	Manufacturing Specials
Factory	Factory Identification

0000	*

# MODEL RESTRICTIONS

Restriction Letter	Available Only with		Not Available with	
	Table	Selection(s)	Table	Selection(s)
а			IV	F7, FG
С	1d	N,K,D,B	la	C,D,G,H,K,L
е	1b	_2		
h			le	4, 5, 6_
р			III	B- No CRN number available
t			la	J, K, L,
b	Select only one option from this group			

# Sales and Service

For application assistance, current specifications, pricing, or name of the nearest Authorized Distributor, contact one of the offices below.

## **ASIA PACIFIC**

Honeywell Process Solutions, (TAC) <a href="https://hrstac-support@honeywell.com">hfs-tac-support@honeywell.com</a>

#### Australia

Honeywell Limited Phone: +(61) 7-3846 1255 FAX: +(61) 7-3840 6481 Toll Free 1300-36-39-36 Toll Free Fax: 1300-36-04-70

# China - PRC - Shanghai

Honeywell China Inc. Phone: (86-21) 5257-4568 Fax: (86-21) 6237-2826

#### Singapore

Honeywell Pte Ltd. Phone: +(65) 6580 3278 Fax: +(65) 6445-3033

#### South Korea

Honeywell Korea Co Ltd Phone: +(822) 799 6114 Fax: +(822) 792 9015

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hfs-tac-support@honeywell.com

# AMERICA'S

Honeywell Process Solutions, Phone: (TAC) 1-800-423-9883 or 215/641-3610 (Sales) 1-800-343-0228

Email: (Sales)

FP-Sales-Apps@Honeywell.com

or (TAC)

hfs-tac-support@honeywell.com

Specifications are subject to change without notice.

#### For more information

To learn more about SmartLine Transmitters, visit <a href="www.honeywellprocess.com">www.honeywellprocess.com</a>
Or contact your Honeywell Account Manager

## **Process Solutions**

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