

SMV 3000 Configuration Data Sheet

MC Option

Defaults for transmitter configuration are noted by **Bold** items or they are shown. For help and an explanation on each entry, place cursor on Red marker, use the right click on the mouse. Then choose Edit Comment and expand the box to read the entire comment.

Honeywell S.O. Number: _____

SMV 3000 Model #: _____

General Configuration Section

Tag I.D. Number: _____
(8 Characters Max.)

Scratch Pad: _____
(32 Characters Max.)

Mode of Operation: Analog _____ DE _____

Analog Output Choice: PV1 _____ PV2 _____ PV3 _____ **PV4** _____

PV DE Mode Broadcast: PV1 On _____ PV1 On w/SV _____
(only required if selecting PV1 - PV2 On _____ PV1 - PV2 On w/SV1 _____
DE Mode of Operation) PV1 - PV3 On _____ PV1 - PV3 On w/SV1 _____
PV1 - PV4 On _____ PV1 - PV4 On w/SV1 _____

Line Filter: 50 Hz _____ **60 Hz** _____

Failsafe Direction: Upscale _____ Downscale _____
(Analog Mode Only)

Differential Pressure - PV1 - Configuration Section

PV1 Output Conformity: Linear _____ Square Root _____

PV1 Damping (sec.): **0.0** _____ 0.16 _____ 0.32 _____ 0.48 _____ 1 _____ 2 _____
4 _____ 8 _____ 16 _____ 32 _____

PV1 Eng. Units: "H2O_39F _____ PSI _____ MPa _____ bar _____
kg/cm^2 _____ mmH2O_4C _____ mmHg_0C _____ KPa _____
mbar _____ g/cm^2 _____ inHg_32F _____ ATM _____
mH2O_4C _____ "H2O_68F _____ "H2O_60F _____

PV1 Range: LRV _____ URV _____
(defaults are **0** and **100 inches H2O 39F**)

Static Pressure - PV2 - Configuration Section

PV2 Damping (sec.): 0.0 ____ 0.16 ____ 0.32 ____ 0.48 ____ 1 ____ 2 ____
 4 ____ 8 ____ 16 ____ 32 ____

PV2 Eng. Units: "H2O_39F ____ PSI ____ MPa ____ bar ____
 (Static Pressure) kg/cm^2 ____ mmH2O_4C ____ mmHg_0C ____ KPa ____
 mbar ____ g/cm^2 ____ inHg_32F ____ ATM ____
 mH2O_4C ____ "H2O_68F ____ "H2O_60F ____

PV2 Range: LRV ____ URV ____
 (default depends on SMV 3000 model number - specify gauge or absolute)

Barometric Pressure: ____
 (If using SMV 3000 in a flow application and you specify the SMG170 model number, enter the barometric pressure)
 (Default is 14.7 psia)

Process Temperature - PV3 - Configuration Section

PV3 Damping (sec.): 0.0 ____ 0.3 ____ 0.7 ____ 1.5 ____ 3.1 ____ 6.3 ____
 12.7 ____ 25.5 ____ 51.1 ____ 102.3 ____

PV3 Probe Type: PT 100 D RTD ____ Type E TC ____ Type J TC ____
 Type K TC ____ Type T TC ____

PV3 Eng. Units: deg. C ____ deg. F ____ deg. R ____

PV3 Range: LRV ____ URV ____
 (defaults are -200 and 450 deg. C)

PV3 Cold Junc. Comp.: Internal ____ External ____ ECJT: ____
 (Only for Thermocouple. If external, specify the temp. in the ECJT slot)

PV3 TC Fault Detection: On ____ Off ____

PV3 Output Charact.: Linear ____ Non-Linear ____

Flow - PV4 - Configuration Section

Flow Configuration Not Needed? ☐ (check this box if you do not need flow configuration)

Dynamic Flow Compensation Section

(If you are using a primary element that is not listed, use the Standard Flow Equation Section below.)

Flow Element Type:

Orifice - Flange Taps (ASME-ISO) D >= 2.3 inches ____
 Orifice - Flange Taps (ASME-ISO) 2 <= D <= 2.3 ____
 Orifice - Corner Taps (ASME-ISO) ____
 Orifice - D and D/2 Taps (ASME-ISO) ____
 Orifice - 2.5D and 8D Taps (ASME-ISO) ____ (Liquids only)
 Venturi - Machined Inlet (ASME-ISO) ____ (Liquids only)
 Venturi - Rough Cast Inlet (ASME-ISO) ____ (Liquids only)
 Venturi - Rough Welded Sheet-Iron Inlet (ASME-ISO) ____ (Liquids only)
 Nozzle (ASME Long Radius) ____ (Liquids only)
 Venturi nozzle (ISA Inlet) ____ (Liquids only)
 Leopold venturi ____ (Liquids only)
 Gerand venturi ____ (Liquids only)
 Universal Venturi Tube ____ (Liquids only)
 Lo-Loss Venturi Tube ____ (Liquids only)
 Preso Ellipse Ave. Pitot Tube ____ (Specify 7/8", 1.25" or 2.25" Probe diameter)

Material ____

Bore Diameter (inches at 68 deg. F) ____ (not required for Pitot Tube)

Design Temperature ____ (not required for Pitot Tube)

Fluid State: Gas _____ Liquid _____ Steam _____

Flow Data: (obtained from Primary Element Sizing Sheet)

Design Pressure _____ (Only required for Gas applications)

Design Temperature _____ (Only required for Gas applications)

Design Density _____ (Only required for Gas applications)

Standard Density _____ (Only required for Gas and Liquid Standard Volume applications)

Fluid Name: _____

Pipe Properties: Material _____ Pipe Schedule _____ Pipe Diameter _____

Isentropic Exponent: _____ (not required for liquid applications or Pitot Tube)

Standard Flow Compensation Section

(Standard equation should be used for any primary element not listed in Dynamic Flow Section above.)

Fluid State: Gas _____ Liquid _____ Steam _____

Fluid Name: _____

Flow Data: (obtained from Primary Element Sizing Sheet)

Normal Flowrate _____ Design Pressure _____ (Only required for Gas applications)

Normal Diff. Pressure _____ Design Temperature _____ (Only Gas applications)

Design Density _____ (only required for steam applications)

Standard Density _____ (Only required for Gas and Liquid Standard Volume applications)

Flow Compensation: None _____ Full _____ Pressure Only _____ Temperature Only _____

General Flow Configuration Section (Must be completed)

PV4 Range: LRV _____ URV _____ URL _____
(defaults are 0, 100,000 and 100,000 m3/hr)

PV4 Eng. Units: (Volumetric Flow)	cc/h _____	cc/min _____	l/h _____	l/min _____
	gal/day _____	Kgal/day _____	gal/h _____	gal/min _____
	bbl/day _____	m3/day _____	m3/hr _____	m3/min _____
	m3/sec _____	CFM _____	CFH _____	

Type of Volumetric Flow Units:

Standard Volume Units _____ Actual Volume Units _____

PV4 Eng. Units: (Mass Flow)	lb/min _____	lb/h _____	lb/sec _____	ton/sec _____
	ton/min _____	ton/h _____	kg/min _____	kg/sec _____
	kg/h _____	t/min _____	t/h _____	t/sec _____
	g/sec _____	g/min _____	g/h _____	

PV4 Eng. Units: _____ Conversion Factor = _____
(Complete if choosing Custom Units, 8 characters Max.)

PV4 Damping (sec.): 0.0 _____ 0.5 _____ 1.0 _____ 2.0 _____ 3.0 _____ 4.0 _____
5.0 _____ 10 _____ 50 _____ 100 _____

PV4 Low Flow Cutoff: Low Limit _____ High Limit _____ (defaults are **zero**)

PV4 Failsafe: PV2 Failsafe On _____ **PV2 Failsafe Off** _____ Pressure _____
PV3 Failsafe On _____ **PV3 Failsafe Off** _____ Temperature _____

Custom Liquid:

Density and Viscosity Data:

(Please supply at least 5 pairs of values for density vs. temperature
and viscosity vs. temperature if dynamic density and viscosity compensation is desired.)

density - lbs/ft3	viscosity - cPoise	temperature - deg. F
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Configured By: _____
Phone Number: _____

Date: ____/____/____

Next Page Blank

This page is intentionally left blank.