Rosemount 3051S MultiVariable™ Transmitter

A check (√) indicates the basic configuration parameters. At minimum, these parameters should be verified as part of the configuration and startup procedure.

Table 1. Fast Keys for Fully Compensated Mass and Energy Flow Output

	Function	Fast Key Sequence
	Absolute Pressure Reading and Status	1,4,2,1,5
	Absolute Pressure Sensor Limits	1,4,1,5,8
	Absolute Pressure Units	1,3,3,5
	Alarm and Saturation Level Configuration	1,4,2,6,6
	Alarm and Saturation Levels	1,4,2,6
	Analog Output Trim Options	1,2,5,2
	Burst Mode Setup	1,4,3,3,3
	Burst Mode Options	1,4,3,3,4
	Callendar-van Dusen Sensor Matching	1,2,5,5,4
	Configure Fixed Variables	1,2,4
	Damping	1,3,7
	Diaphragm Seals Information	1,4,4,5
√	Differential Pressure Low Flow Cutoff	1,4,1,1,6
	Differential Pressure Reading and Status	1,4,2,1,4
	Differential Pressure Sensor Trim Options	1,2,5,3
√	Differential Pressure Zero Trim	1,2,5,3,1
	Differential Pressure Units	1,3,3,4
	Energy Rate Units	1,3,3,2
	Energy Reading and Status	1,4,2,1,2
	Equipped Sensors	1,4,4,4
	Field Device Information	1,4,4,1
	Flow Calculation Type	1,4,1,1,2
√	Flow Rate Units	1,3,3,1

Table 1. Fast Keys for Fully Compensated Mass and Energy Flow Output (continued)

	Function	Fast Key Sequence
	Flow Reading and Status	1,4,2,1,1
	Gage Pressure Reading and Status	1,4,2,1,6
	Gage Pressure Sensor Limits	1,4,1,5,9
	Gage Pressure Units	1,3,3,6
	LCD Configuration	1,3,8
	Loop Test	1,2,2
	Module Temperature Reading and Status	1,4,2,1,8
	Module Temperature Units	1,3,3,8
	Poll Address	1,4,3,3,1
	Process Temperature Reading and Status	1,4,2,1,7
√	Process Temperature Sensor Mode	1,4,1,6,8
	Process Temperature Sensor Trim Options	1,2,5,5
	Process Temperature Unit	1,3,3,7
√	Ranging the Analog Output	1,2,5,1
	Recall Factory Trim Settings	1,2,5,2,3
	Sensor Information	1,4,4,2
√	Static Pressure Sensor Lower Trim (AP Sensor)	1,2,5,4,2
	Static Pressure Sensor Trim Options	1,2,5,4
√	Static Pressure Sensor Zero Trim (GP Sensor)	1,2,5,4,1
√	Status	1,2,1
√	Tag	1,3,1
	Test Flow Calculation	1,2,3
	Totalizer Configuration	1,4,1,3
	Totalizer Reading and Status	1,4,2,1,3
	Totalizer Units	1,3,3,3
	Variable Mapping	1,4,3,4
	Write Protect	1,3,5,4

Table 2. Fast Keys for Direct Process Variable Measurement

	Function	Fast Key Sequence
	Absolute Pressure Reading and Status	1,4,2,1,2
	Absolute Pressure Sensor Limits	1,4,1,2,8
√	Absolute Pressure Units	1,3,3,2
	Alarm and Saturation Level Configuration	1,4,2,6,6

Table 2. Fast Keys for Direct Process Variable Measurement (continued)

	Function	Fast Key Sequence
	Alarm and Saturation Levels	1,4,2,6
	Analog Output Trim Options	1,2,4,2
	Burst Mode Setup	1,4,3,3,3
	Burst Mode Options	1,4,3,3,4
	Callendar-van Dusen Sensor Matching	1,2,4,5,4
	Damping	1,3,7
	Diaphragm Seals Information	1,4,4,4
	Differential Pressure Reading and Status	1,4,2,1,1
	Differential Pressure Sensor Trim Options	1,2,4,3
√	Differential Pressure Zero Trim	1,2,4,3,1
√	Differential Pressure Units	1,3,3,1
	Equipped Sensors	1,4,4,3
	Field Device Information	1,4,4,1
	Gage Pressure Reading and Status	1,4,2,1,3
	Gage Pressure Sensor Limits	1,4,1,2,9
√	Gage Pressure Units	1,3,3,3
	LCD Configuration	1,3,8
	Loop Test	1,2,2
	Module Temperature Reading and Status	1,4,2,1,5
	Module Temperature Units	1,3,3,5
	Poll Address	1,4,3,3,1
	Process Temperature Reading and Status	1,4,2,1,4
	Process Temperature Sensor Trim Options	1,2,4,5
√	Process Temperature Unit	1,3,3,4
√	Ranging the Analog Output	1,2,4,1
	Recall Factory Trim Settings	1,2,4,2,3
	Sensor Information	1,4,4,2
√	Static Pressure Sensor Lower Trim (AP Sensor)	1,2,4,4,2
	Static Pressure Sensor Trim Options	1,2,4,4
√	Static Pressure Sensor Zero Trim (GP Sensor)	1,2,4,4,1
√	Status	1,2,1
√	Tag	1,3,1
√	Transfer Function	1,3,6
	Variable Mapping	1,4,3,4
	Write Protect	1,3,5,4

Figure 1. Menu Tree for Fully Compensated Mass and Energy Flow (pg. 1)

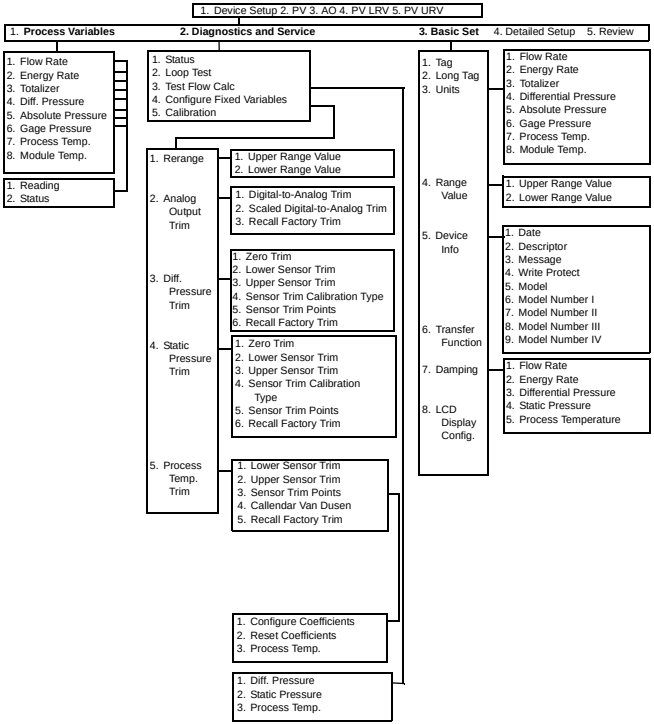


Figure 1. Menu Tree for Fully Compensated Mass and Energy Flow (pg. 2)

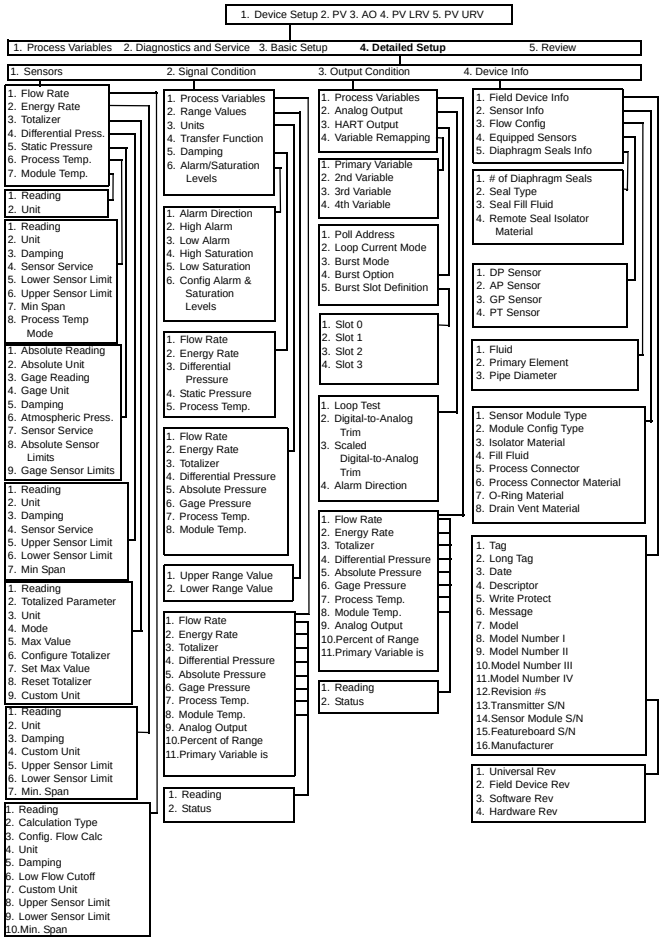


Figure 2. Menu Tree for Direct Process Variable Output (pg. 1)

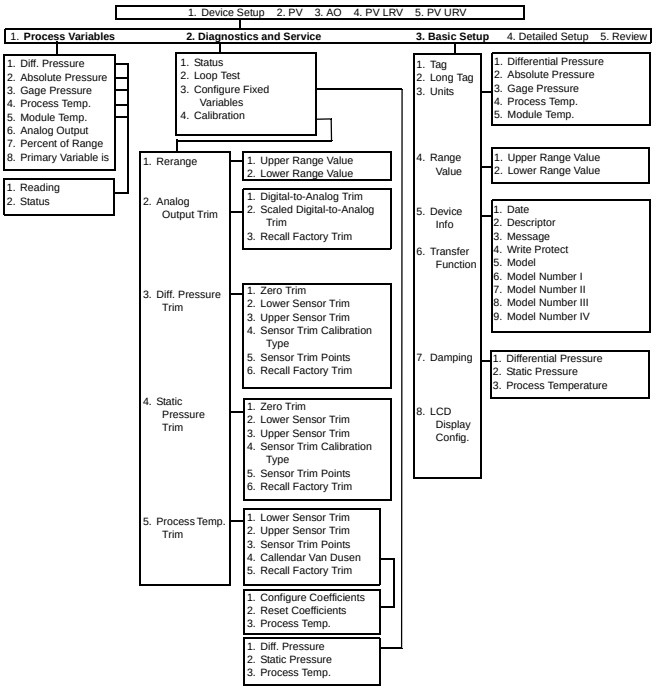
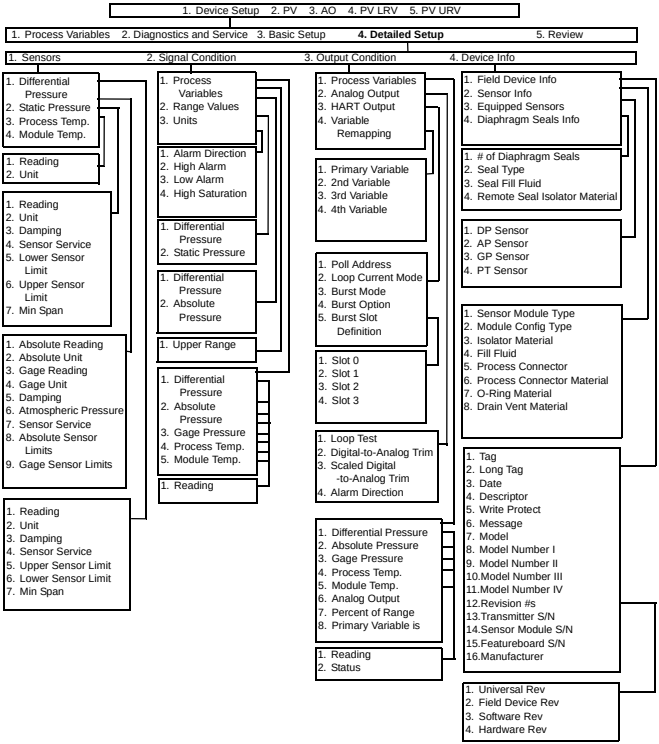


Figure 2. Menu Tree for Direct Process Variable Output (pg. 2)



HART Reference Card
00829-0100-4803, Rev AA
March 2009

Rosemount 3051SMV

Emerson Process Management
Rosemount Measurement
8200 Market Boulevard
Chanhassen, MN USA 55317
T (US) (800) 999-9307
T (Intnl) (952) 906-8888
F (952) 949-7001

Emerson Process Management
GmbH & Co. OHG
Argelsrieder Feld 3
82234 Wessling
Germany
T 49 (8153) 9390
F 49 (8153) 939172

Emerson Process Management
Asia Pacific Private Limited
1 Pandan Crescent
Singapore 128461
T (65) 6777 8211
F (65) 6777 0947/65 6777 0743

Beijing Rosemount Far East
Instrument Co., Limited
No. 6 North Street,
Hepingli, Dong Cheng District
Beijing 100013, China
T (86) (10) 6428 2233
F (86) (10) 6422 8586

ROSEMOUNT

EMERSON
Process Management