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SMV800 SmartLine Multivariable Transmitter **Quick Start Installation Guide**

34-SM-25-04, Revision 4, September 2018

This document provides descriptions and procedures for the quick installation of Honeywell's family of SmartLine transmitters. The SmartLine Multivariable transmitter is available in a variety of models for measuring differential pressure, static pressure, process temperature, volume and mass flow	Various other documents are available on the CD supplied with your shipment. Documents in hardcopy can also be ordered. Copyrights, Notices and Trademarks. Copyright 2018 by Honeywell Revision 4, September 2018
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For full details refer to the manuals listed below for protocols, user Interface (HMI) operation, Installation, configuration, calibration,	SFC, SmartLine, ST 700, ST 800, STT850, STT750 and SMV800 are U.S. registered trademarks of Honeywell Inc.
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Documentation

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Or you can follow the URL to access the online SmartLine HUB page.

The HUB page will contain direct links to open SmartLine product documentation.

QR Code

URL https://hwll.co/SmartLineHUB



Installation

Evaluate the site selected for the transmitter installation with respect to the process system design specifications and Honeywell's published performance characteristics for your model.

Temperature extremes can affect display quality. The display can become unreadable at temperature extremes; however, this is only a temporary condition. The display will again be readable when temperatures return to within operable limits.

Features and Options

The SMV800 is packaged in two major assemblies: the electronics housing and the meter body. The elements in the electronic housing respond to setup commands and execute the software and protocol for the different pressure measurement types. Figure 1 shows the assemblies in the electronics housing with available options. The meter body provides connection to a process system. Several physical interface configurations are available, as determined by the mounting and mechanical connections.



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The SMV800 SmartLine multivariable transmitter measures differential pressure, static pressure (absolute or gauge), and process temperature. These measurements are used to calculate volumetric or mass flow rates. The measured values and calculated flow can be read by a connected Host

Available communication protocols are Honeywell Digitally Enhanced (DE), HART and Modbus RTU. Digital or analog (4-20ma) output modes are available. The SMV800 measures process temperature from an external RTD or thermocouple.

Universal temperature input is available as a selectable feature with the device or as license enabled, field upgradable option.

With Modbus protocol, Flow calculation capability also is available as selectable feature with the device or as license enabled, field upgradable option while this is a standard feature with HART and DE protocols

Device Variables

(RS-485)

SMV800 supports 6 device variables:

- **Differential Pressure** 1.
- 2 Static Pressure
- 3 Process Temperature Calculated Flow Rate 4.
- 5. Totalizer
- Meter Body Temperature.

For DE transmitters, Differential Pressure, Static Pressure, Process Temperature or Flow may be assigned to analog output. In HART transmitters, Differential Pressure, Static Pressure, Process Temperature, Flow and Totalizer may be mapped to device variables PV (analog output), SV, TV or QV and Meter Body temperature may be mapped to SV, TV or QV. All six variables are Modbus process variables.

Mounting the Transmitter

Transmitter models can be attached to a two-inch (50 millimeter) vertical or horizontal pipe using Honeywell's optional angle or flat mounting bracket; alternately you can use your own bracket.

Typical bracket mounted installations



Figure 2: Mounting brackets

Bracket mounting

Mounting bracket, see Figure 3

Rotate the transmitter housing, see Figure 4

Level a transmitter with small absolute or differential pressure spans, see Figure 5 $\,$

Rotating Transmitter Housing

Use a 2mm hex wrench to loosen the set screw on outside neck of transmitter one full turn. Rotate the transmitter housing to a maximum of 180 degree increment in left or right direction from center to position you require and tighten set screw (1.46 to 1.68 Nm/13 to 15 lb-in).



Figure 4: Rotating Transmitter Housing

Mounting bracket

Position bracket on 2-inch (50.8 mm) and install "U" bolt around pipe and through holes in bracket. Secure with nuts and lock washers provided.

Figure 3 Example - Angle mounting bracket secured to horizontal or vertical



Figure 3: Angle mounting bracket

Leveling Transmitters with Small Absolute or Differential Pressure Spans

Mounting position of these transmitters is critical due to the smaller transmitter spans.

To minimize these positional effects on calibration (zero shift), take the appropriate mounting precautions that follow for the given transmitter model. See figure Figure 5 for suggestions on how to level the transmitter using a spirit balance.

To perform a Zero Trim after leveling, refer Trim the transmitter.



Figure 5: Using level to mount transmitter

For a model SMA810 or SMA845 transmitters, you must ensure that the transmitter is vertical when mounting it. You do this by leveling the transmitter side-to-side and front-to-back.

Mount transmitter vertically to assure best accuracy. Position a spirit balance on pressure connection surface of AP body.

Conduit Entry Connectors, Plugs and Adapters Procedures

It is the user/installer's responsibility to install the transmitters in accordance with national and local code requirements. Conduit entry plugs and adapters shall be suitable for the environment, shall be certified for the hazardous location when required and acceptable to the authority having jurisdiction for the plant.

CONDUIT ENTRY PRECAUTIONARY NOTICE

THE CONDUIT/CABLE GLAND ENTRIES OF THIS PRODUCT ARE SUPPLIED WITH PLASTIC DUST CAPS WHICH ARE NOT TO BE USED IN SERVICE. IT IS THE USER'S RESPONSIBILITY TO REPLACE THE DUST

CAPS WITH CABLE GLANDS, ADAPTORS AND/OR BLANKING PLUGS WHICH ARE SUITABLE FOR THE ENVIRONMENT INTO WHICH THIS PRODUCT WILL BE INSTALLED. THIS INCLUDES ENSURING COMPLIANCE WITH HAZARDOUS LOCATION REQUIREMENTS AND REQUIREMENTS OF OTHER GOVERNING AUTHORITIES AS APPLICABLE.

Use the following procedures for installation.

Table 1: Conduit ent	y connectors and	plugs
----------------------	------------------	-------

Step	Action			
1	Remove the protective plastic cap from the threaded conduit entry.			
2	To ensure the environmental ingress protection rating on tapered (NPT), a non-hardening thread sealant may be used.			
3	Thread the appropriate size conduit connector or plug (M20 or ½" NPT) into the conduit entry opening. Do not install conduit entry connectors or plugs in conduit entry openings if adapters or reducers will be used.			
4	Tighten plugs per the following table.			
	Description Tool Torque		que	
	M20 Conduit Entry	10mm Hex Wrench	32 Nm	24 Lb-ft
	1/2" NPT Conduit Entry	10mm Hex Wrench	32 Nm	24 Lb-ft

Wiring Connections and Power Up Summary

The transmitter (HART/DE) is designed to operate in a two-wire power/current loop with loop resistance and power supply voltage within the HART/DE operating range shown below.



For DE, Rimax = 35* (Power Supply Voltage-15) For HART, Rimax = 45.6* (Power Supply Voltage-10.8)

Figure 7: Two-wire power/current loop

A minimum of 250 ohms of loop resistance is required to support communications. Loop resistance = barrier resistance., + wire resistance, =receiver resistance, +peripheral device resistance

Loop wiring is connected to the transmitter by attaching the positive (+) and negative (-) loop wires to the positive (+) and negative (-) terminals on the transmitter terminal block in the electronics housing shown in Figure 8. Connect the loop power wiring shield to earth ground only at the power supply end.

Table 2 - Conduit Adapters				
Step	Action			
1	Remove the protective plastic cap from the threaded conduit entry.			
2	To ensure the environmental ingress rating on tapered threads (NPT), a non-hardening thread sealant may be used.			
3	Thread the appropriate size adapter (M20 or ½ NPT) into the conduit entry opening			
4	Tighten adapters as per the following table.			
	Description	Tool	Torque	
	1/2 to 3/4 NPT Adapter	1 ¼" Wrench	32Nm	24Lb-ft



Figure 6: Electronic Housing Conduit Entries

Note. No conduit connectors or plugs come installed in the housings. All housings come with temporary plastic dust protectors (red) installed and are not certified for use in any installation.

Supply Voltage for SMV Modbus

Modbus (RS-485) Models: 9.5 V to 30 Vdc at terminals.

Power Consumption: Average power consumption is 70 mW at 9.5 V Supply. This includes RS-485 communication at 9600 baud rate at a rate of once per second without termination at room temperature.



Figure 8: Terminal Block and Grounding Screw location

As shown above, each transmitter has an internal terminal to connect it to earth ground. Optionally, a ground terminal can be added to the outside of the Electronics Housing.

Screw terminals 1, 2, 3, 5, 6, 7 & 8 only required for single input, terminals 4 and 9 are only used for a Modbus device



CAUTION: For proper operation of the transmitter, grounding of the transmitter is mandatory. This minimizes the possible effects of noise on the output signal and affords protection against lighting and static discharge

An optional lightning terminal block can be installed in place of the nonlightning terminal block for transmitters that will be installed in areas that are highly susceptible to lightning strikes. As noted above, the loop power wiring shield should only be connected to earth ground at the power supply end.

Wiring must comply with local codes, regulations and ordinances. Grounding may be required to meet various approval body certification, for example CE conformity. Refer to Appendix A of this document for details.

The HART/DE transmitter is designed to operate in a 2-wire power/current loop with loop resistance and power supply voltage within the operating range; see Figure 7.

With an optional remote meter (for HART/DE), the voltage drop for this must be added to the basic power supply voltage requirements to determine the required transmitter voltage and maximum loop resistance. Additional consideration is required when selecting intrinsic safety barriers to ensure that they will supply at least minimum transmitter voltage, including the required 250 ohms of resistance (typically within the barriers) needed for digital communications.

Wiring Variations

The above procedures are used to connect power to a transmitter. For loop wiring and external wiring, detailed drawings are provided for transmitter installation in

non-intrinsically safe areas and for intrinsically safe loops in hazardous area locations.

This procedure shows the steps for connecting power to the transmitter.

Input Sensor Wiring

Connect the input sensors as shown in Figure 9 below:



Figure 9: Thermocouple connections

RTD Connections

 Resistance temperature detector (RTD) measurements use the 3 or 4 wire approach. The transmitter determines by itself if a 3 or 4 wire RTD is connected when powered up.



.oop wiring (HAR I/DE)		
Step	Action	
1	See Figure 8, above, for parts locations.	
2	Remove the end cap cover from the terminal block end of the electronics housing.	
3	Feed loop power leads through one end of the conduit entrances on either side of the electronics housing. The transmitter accepts up to 16 AWG wire. Shield of the cable to be grounded on the supply/host side.	
4	Connect the positive loop power lead to the positive (+) terminal and the negative loop power lead to the negative (-) terminal. Note that the transmitter is not polarity-sensitive.	
5	Feed input sensor wires through the 2 nd conduit entrance and connect wire.	
6	Replace the end cap, and secure it in place.	

Power Supply Wiring (Modbus) Procedure

- See Figure 8, above, for parts locations. Loosen the end cap lock us a 1.5 mm Allen wrench.
- 2. Remove the end cap cover from the terminal block end of the electronics housing.
- Feed twisted pair shielded power supply leads through one end of the conduit entrances on either side of the electronics housing. The transmitter accepts up to 16 AWG wire. Shield of the cable to be grounded on the Supply/Host side.
- Connect the positive power supply lead to the positive (+) terminal (Terminal #1) and negative power supply lead to the negative (-) terminal (Terminal #2). Note that the transmitter is not polarity-sensitive.
- Modbus communication wires can be fed through the same conduit that is being used for feeding power supply inputs. For details related to Modbus connection refer to Table 3 and the section on SMV Modbus Half-Duplex Modbus (RS-485) Wiring Procedure.
- 6. Feed input sensor wires through the 2nd conduit entrance and connect wire.
- 7. Replace the end cap, and secure it in place.



Figure 11: Wiring details for SMV Modbus Terminal block

Table 3: Wiring details for SMV Modbus Terminal block
Terminal
Description

Number	•
1	Power Supply input +ve
2	Power Supply input -ve (Return)
3	Modbus (RS-485) A
4	Modbus (RS-485) B
5	Temperature Sensor Input
6	Temperature Sensor Input
7	Temperature Sensor Input
8	Temperature Sensor Input
9	Modbus (RS-485) Common



Explosion-Proof Conduit Seal

When installed as explosion proof in a Division 1 Hazardous Location, keep covers tight while the transmitter is energized. Disconnect power to the transmitter in the non-hazardous area prior to removing end caps for service.

When installed as non-incendive equipment in a Division 2 hazardous location, disconnect power to the transmitter in the non-hazardous area, or determine that the location is non-hazardous before disconnecting or connecting the transmitter wires.

Transmitters installed as explosionproof in Class I, Division 1, Group A Hazardous (classified) locations in accordance with ANSI/NFPA 70, the US National Electrical Code, with $\frac{1}{2}$ inch conduit do not require an explosionproof seal for installation.

If $\frac{3}{4}$ inch conduit is used, a LISTED explosionproof seal to be installed in the conduit, within 18 inches (457.2 mm) of the transmitter.

For a transmitter with a small differential pressure span, you must ensure that the transmitter is vertical when mounting it. You do this by leveling the transmitter side-to-side and front-to-back. See Figure 5 for suggestions on how to level the transmitter using a spirit balance. You must also zero the transmitter by following the steps in this table.

Step	Action
1	Attach the transmitter to the mounting bracket but do not completely tighten the mounting bolts
2	Connect a tube between the input connections in the high pressure (HP) and low pressure (LP) heads to eliminate the effects of any surrounding air currents.
3	Connect 24 Vdc power to the transmitter. For HART/DE, connect a digital voltmeter to monitor the PV output.
4	Use applicable communicator to establish communications with the transmitter. For DE transmitter use the SmartLine Configuration Toolkit (SCT3000). For HART, use MCT404-FDC application or other HART Communicator with applicable Honeywell DD's. For MODBUS, use Honeywell's Modbus host.
5	While reading the transmitter's output on a communication tool or a voltmeter, position the transmitter so the output reading is at or near zero, and then completely tighten the mounting bolts.
6	The local display or applicable communicator can be used to perform the zero corrects. This corrects the transmitter for any minor error that may occur after the mounting bolts are tightened.
7	Remove the tube from between the input connections, the power, and the digital voltmeter or communication tool.

SET JUMPERS FOR HART/DE

Setting failsafe direction and write protect jumpers

The SmartLine Multivariable transmitter (DE or HART) provides two jumpers to set the desired failsafe action and write protect option. See Figure 13. The top jumper on the electronics module sets the failsafe direction. The

default setting is up-scale failsafe. Upscale drives the loop to a value greater than 21mA while down scale drives

the loop to a value less than 3.8mA. You can change the failsafe direction by moving the failsafe jumper (top jumper)

to the desired position (UP or DOWN).

2

The bottom jumper sets the write protect. The default setting is OFF (Un-protected). When set to the ON (Protected) position, changed configuration parameters cannot be written to the transmitter.

When set to the OFF (Un-protected) position, changed configuration parameters can be written to the transmitter.

ATTENTION: Electrostatic Discharge (ESD) hazards. Observe precautions for handling electrostatic sensitive devices.

Step	Action	
1	Turn OFF transmitter power.	
2	Loosen the end-cap lock, and unscrew the end cap from the electronics side of the transmitter housing.	
3	If applicable, carefully depress the tabs on the sides of the display module and pull it off. If necessary, move the interface connector from the communication module to the display module to provide the preferred orientation of the display module in the window.	
4	Set the failsafe jumper (top jumper) to the desired action (UP or DOWN). And the write protect jumper (Bottom jumper) to the desired behavior (Protected or Unprotected) See Figure 14 for jumper positioning.	
5	Screw on the end cap and tighten the end-cap lock.	
6	Turn ON transmitter power.	



Figure 13: Jumper location HART

Jumper Settings	Description	
	Failsafe = UP (High) Write Protect = OFF (Not Protected)	
	Failsafe = DOWN (Low) Write Protect = OFF (Not Protected)	
	Failsafe = UP (High) Write Protect = ON (Protected)	
	Failsafe = DOWN (Low)	
	Write Protect = ON (Protected)	
Figure 14: Jumper settings HART		

Table 4: AC Termination and Write Protect Jumpers for Modbus

Jumper Arrangements	Description
	AC termination = OFF (Disabled) Write Protect = OFF (Not Protected)
	AC termination = ON (Enabled) Write Protect = OFF (Not Protected)
	AC termination = ON (Enabled) Write Protect = ON (Protected)
	AC termination = OFF (Disabled) Write Protect = ON (Protected)

Set of Jumpers for Modbus

The SmartLine Multivariable Modbus transmitter provides two jumpers to set the desired AC Termination setting and write protect option. See Figure 15.

	ATTENTION : Electrostatic Discharge (ESD) hazards. Observe precautions for handling electrostatic sensitive devices
Step	Action
1	Turn OFF transmitter power.
2	Loosen the end-cap lock, and unscrew the end cap from the electronics side of the transmitter housing.
3	If applicable, carefully depress the tabs on the sides of the display module and pull it off. If necessary, move the interface connector from the communication module to the display module to provide the preferred orientation of the display module in the window.
4	Set the AC Termination jumper to the desired action and the write protect jumper to the desired behavior (See Figure 15 for jumper positioning.
5	Screw on the end cap and tighten the end-cap lock.
6	Turn ON transmitter power.



Configuration Guide Table 5 shows the transmitter display configuration. Key Parameters in Italics are read-only. * HART only ** HART and DE **** HART and Modbus

Pressure Parameters Temperature Parameters **Common Parameters** Flow Parameters **Totalizer Parameters**

	Table 5: Advance	d Display Configuration
	Critical	Active Diags
		Meter Body
		Meter Body Comm
		Temp Sensor Board
Diagnostics		Temp Input
		Temp Sensor Comm
		Comm Module
		Comm VCC Fault
		1
		Active Diags
		Analog Out Mode **
	Non-Critical	Write Protected (Only Modbus)
		DP Zero Correct
		DP Span Correct
		Meter Body Input
		Meter Body Temp
		Meter Body Comm
Diagnostics		Pressure Fac Cal ***
		Temp Cal Correct
		Tomp our concor
		Temp Module Temp
		Temp Module Temp Temp Input Range
		Temp Module Temp Temp Input Range CJ Range
		Temp Input Range CJ Range Temp Input
		Temp Module Temp Temp Input Range CJ Range Temp Input Temp Input Temp Input TB6
		Temp Module Temp Temp Input Range CJ Range Temp Input Temp Input Temp Input TB6 Temp Fac Cal

		PV Out of Range **
		Comm Module Temp **
		Supply Voltage
		DAC Temp Comp **
		Display Setup
		Flow Divide by 0
		Flow Sqrt of Neg
		Flow Direction
Diagnostics		Flow SP/PT Comp
(continued)	Non Critical	Totalizer Max ***
(,	NON-Chuca	Totalizer Status ***
		Flow Output ***
		DP Sim ON/OFF
		SP Sim ON/OFF
		PT Sim ON/OFF
		Flow Sim ON/Off
		DP Out of Range (Modbus only)
		SP Out of Range (Modbus only)
		PT Out of Range (Modbus only)
		Flow Out of Range (Modbus only)
		MBT Out of range (Modbus only)
	LCD Contrast	Set Contrast
		Set Password
		Language Sereen Betete
		Rotation Time
		DP Units
Display Setup	Common Setup	SP Units
	e en men e e tap	Temp Units
		Mass FI Units
		Totalizer Linit ***
		MBT Unit (Modbus only)

Display Setup (continued)	Screen 1	Screen Format PV Selection PV Scaling *** Display Units Custom Units *** Decimals Scaling Low Lim *** Scaling Low Lim ***
	Screen 8	Scaling High Lim *** Scaling Unit *** Trend Hours Disp Low Lim
		Disp High Lim Scrn Custom Tag

	Set Time Stamp***	Hour, Minute, Year, Month, Day
	DP Zero Correct	Set Time Stamp Do DP Zero Correct
	DP LRV Correct	Set Time Stamp* Do DP LRV Correct
	DP URV Correct	Set Time Stamp Do DP URV Correct
	DP Reset Correct	Set Time Stamp Do DP Reset Correct
	SP Zero Correct	Set Time Stamp Do SP Zero Correct
	SP LRV Correct	Set Time Stamp Do SP LRV Correct
Calibration	SP URV Correct	Set Time Stamp Do SP URV Correct
	SP Reset Correct	Set Time Stamp Do SP Reset Correct
	Temp Cal Points **	Temp Cal Lo Pt ** Temp Cal Hi Pt **
	Temp Cal Lo Corr	Set Time Stamp Do Temp Cal Lo
	Temp Cal Hi Corr	Set Time Stamp Do Temp Cal Hi
	Temp Reset Corr	Set Time Stampv Reset Temp Corr
	DAC Trim **	Trim Zero ** Trim Span ** Set DAC Normal **
	Loop Test **	Set DAC Output ** Set DAC Normal **

	Device Setup	Tag ID Loop Source ** NAMUR Output **
	HART Setup*	Device ID Universal Rev Field Device Rev Final Assy Num Loop mA Poll Address
Device Setup	Modbus Setup* (Modbus only)	Slave ID Baud Rate Final Assy Num Tum Around Delay Parity
	HART Date*	Year, Month, Day, Write Date
	Modbus Date (Modbus only)	Year, Month, Day, Write Date
	Dev Instl Date	Year, Month, Day, Instal Date, Write Date
	Pres Sens Instl (Modbus only)	

Pr	essure Params	Device DP Unit Device SP Unit MBT Unit DP Damping sec SP Damping sec Transfer Function ** Filter Perform ***
DF	PLRV	DP LRV (in preferred unit)
DF	PURV	DP URV(in preferred unit)
Se	et DP LRV **	Set DP LRV(in preferred unit)
Pressure Se	et DP URV **	Set DP URV(in preferred unit)
DF	P Factory Cal ***	Active Cal Set *** Select Cal Set ***
SF	P LRV	SP LRV (in preferred unit)
SF	P URV	SP URV (in preferred unit)
Se	et SP LRV **	Set SP LRV (in preferred unit)
Se	et SP URV **	Set SP URV (in preferred unit)
SF	P Factory Cal ***	Active Cal Set *** Select Cal Set ***
ME	BT LRV (Mbus only)	MBT LRV (in preferred unit)
ME	BT URV (Mbus only)	MBT URV (in preferred unit)

	Tomo Sonoor	Device PT Unit *** T Damping sec Break Detect Latching CJ Source
Temperature Setup		Sensor Type Sensor ID RTD Type*** RTD Lead Res Sensor Bias
	Temp LRV	Temp [LRV] (in preferred unit)
	Temp URV	Temp [URV] (in preferred unit)
	Set Temp LRV **	Set [LRV] (in preferred unit) **
	Set Temp URV **	Set [URV] (in preferred unit) **
	T Mod Instal Date ***	Year, Month, Day, Install Date, Write Date ***
	Sens Instl Date ***	Year, Month, Day, Write Date ***
		FI Damping sec
		Mass FI Units Vol El Units
		Dev Flow Unit ***
		Barom Pressure
		K-User Factor
		Algorithm Type
	Flow Parameters	Compens Mode
		Fluid State
Flam Oatum		Pri Elem Type
Flow Setup		Pipe Diameter

Flow Cust Unit Unit *** Base Unit Unit *** Conv Factor Unit *** Flow URL (in preferred unit)

Flow LRV (in preferred unit)

Flow URV (in preferred unit)

ſ

Cutoff Hi Lim

Cutoff Low Lim

r		0 T
		Start Totalizer
	Totalizer Mode ***	Stop I otalizer
		Reset Pos Value
		Reset Neg Value
		Clr Exceed Ctr
		Maximum value
		Preset Value
		Totalizer Unit
	Totalizer Parameters	Sampling Rate
Totalizer*	***	Custom Unit
Setup		Conv Base Unit
-		Conv Factor
		Status Latency
		Totalizer URV (in preferred unit) *
	Totalizer URV *	Totalizer URV (in preferred unit) *
		Totalizer LRV (in preferred unit) *
	Totalizer LRV *	Totalizer LRV (in preferred unit) *
		Pos Totalizer ***
	Statistics ***	Neg Totalizer ***
	Clanolico	Exceed Count ***
L		Excode ocult
	Display	Firmware Version
	Display	Firmware Version Firmware Version
	Display Comm Module	Firmware Version Firmware Version Software Rev
	Display Comm Module	Firmware Version Firmware Version Software Rev Protocol
	Display Comm Module	Firmware Version Firmware Version Software Rev Protocol Firmware Version
	Display Comm Module	Firmware Version Firmware Version Software Rev Protocol Firmware Version Model Key
	Display Comm Module	Firmware Version Firmware Version Software Rev Protocol Firmware Version Model Key DP LRL
	Display Comm Module	Firmware Version Firmware Version Software Rev Protocol Firmware Version Model Key DP LRL DP URL
	Display Comm Module Meter Body	Firmware Version Firmware Version Software Rev Protocol Firmware Version Model Key DP LRL DP Units (preferred unit)
	Display Comm Module Meter Body	Firmware Version Firmware Version Software Rev Protocol Firmware Version Model Key DP LRL DP URL DP URL DP URL SP LRL
Information	Display Comm Module Meter Body	Firmware Version Firmware Version Software Rev Protocol Firmware Version Model Key DP LRL DP URL DP Units (preferred unit) SP LRL SP URL
Information	Display Comm Module Meter Body	Firmware Version Firmware Version Software Rev Protocol Firmware Version Model Key DP LRL DP Units (preferred unit) SP LRL SP URL SP URL SP Units (preferred unit)
Information	Display Comm Module Meter Body	Firmware Version Firmware Version Software Rev Protocol Firmware Version Model Key DP LRL DP URL DP URL SP UR
Information	Display Comm Module Meter Body	Firmware Version Firmware Version Software Rev Protocol Firmware Version Model Key DP URL DP URL DP URL SP URL SP URL SP UNIts (preferred unit) Firmware Version Model Key (Modbus only)
Information	Display Comm Module Meter Body Temp Module	Firmware Version Firmware Version Software Rev Protocol Firmware Version Model Key DP LRL DP Units (preferred unit) SP LRL SP URL SP Units (preferred unit) Firmware Version Model Key (Modbus only) Temp LRL Temp LRL
Information	Display Comm Module Meter Body Temp Module	Firmware Version Firmware Version Software Rev Protocol Firmware Version Model Key DP URL DP Units (preferred unit) SP URL SP URL SP Units (preferred unit) Firmware Version Model Key (Modbus only) Temp LRL Temp URL Tomp URL
Information	Display Comm Module Meter Body Temp Module	Firmware Version Firmware Version Software Rev Protocol Firmware Version Model Key DP LRL DP URL DP URL DP URL SP URL SP URL SP URL SP URL SP URL Firmware Version Model Key (Modbus only) Temp LRL Temp URL Temp URL Te
Information	Display Comm Module Meter Body Temp Module	Firmware Version Firmware Version Software Rev Protocol Firmware Version Model Key DP LRL DP URL DP URL SP URL SP URL SP URL SP UNIS (preferred unit) Firmware Version Model Key (Modbus only) Temp LRL Temp URL Temp URL Temp Units (preferred unit) Universal Temp
Information	Display Comm Module Meter Body Temp Module Options ***	Firmware Version Firmware Version Software Rev Protocol Firmware Version Model Key DP LRL DP URL DP URL SP URL SP URL SP Units (preferred unit) Firmware Version Model Key (Modbus only) Temp LRL Temp URL Temp Units (preferred unit) Universal Temp Flow Output (Modbus only) Carriel Umberg
Information	Display Comm Module Meter Body Temp Module Options ***	Firmware Version Firmware Version Software Rev Protocol Firmware Version Model Key DP LRL DP URL DP URL SP URL SP URL SP Units (preferred unit) Firmware Version Model Key (Modbus only) Temp LRL Temp URL Temp URL Temp URL Temp URL Temp URL Temp Inits (preferred unit) Universal Temp Flow Output (Modbus only) Serial Number Linesse Inv

Appendix A. PRODUCT CERTIFICATIONS A1. Safety Instrumented Systems (SIS) Installations For Safety Certified Installations, please refer to SMV800 SmartLine Multivariable Safety Manual 34-SM-25-05 for installation procedure and system requirements

requirements.

A2. European Directive Information (CE Mark)

Flow URL Flow LRV

Flow URV

Flow Cutoff



<u></u>				noneywe
		SCHEI APPV-SM Revisio	DULE V800-CE on: D	
EMC Directiv	ve (2014/30/EU)			
EN 61326-1:201	Electrical Equip 3 Requirements.	oment for Measure	ement, Control and Laboratory	Use – EMC
Overview of EM Equipme Serial No	IC Testing Int Tested (EUT): 21	SMV845 TRANS CE 001	MITTER	
Summary of Te PORT	ests Performed: TEST	STANDARD	CRITERIA (EN 61326-1)	RESULTS
	Radiated Emission	CISPR 11	Group1, Class A 30 - 230 MHz: 40 dB 230 - 1000 MHz: 47 dB	PASS
	ESD Immunity	IEC61000-4-2	+/- 4KV Contact +/- 8KV Air	PASS
Enclosure	EM Field- RF Radiated Susceptibility	IEC61000-4-3	10 V/m- 80 MHz to 1GHz 3 V/m - 1.4 GHz to 2.0 GHz 1 V/m- 2.0 GHz to 2.7 GHz	PASS PASS PASS
	50Hz/60Hz Magnetic Field Immunity	IEC 6100-4-8	30 A/m	N/A 1
	EFT(B) Immunity	IEC61000-4-4	+/- 1KV	PASS
DC Power	Surge Immunity	IEC61000-4-5	+/- 1KV	PASS
	RF Conducted Susceptibility	IEC61000-4-6	зv	PASS
100	EFT(Burst) Immunity	IEC61000-4-4	+/- 1KV	2
Control	Surge Immunity	IEC61000-4-5	+/- 1KV	2
(Including Earth Lines)	RF Conducted	IEC61000-4-6	ЗV	2

				Honeywe
-		SCH APPV-S Revi	EDULE MV800-CE sion: D	*
PORT	TEST	STANDARD	CRITERIA (EN 61326-1)	RESULTS
	Voltage Dip	IEC61000-4-11	0% during 1 Cycle 40% during 10-12 Cycles 70% during 25-30 Cycles	N/A ³
AC Power	Short Interruptions	IEC61000-4-11	0% during 250-300 Cycles	N/A ³
	EFT(Burst) Immunity	IEC61000-4-4	2KV	N/A ³
	Surge Immunity	IEC61000-4-5	1KV/ 2KV	N/A ³
	RF Conducted Susceptibility	IEC61000-4-6	ЗV	N/A ³
 Produ Test Report I Testing performance 	ict is DC Powered. No : prmed at:	R-236 Retlif 3131 1	7P Testing Labatories Jetwiler Road	
 Produ Test Report I Testing perfo 	uct is DC Powered. No : prmed at:	R-236 Retlif 3131 (Harley USA	7P Testing Labatories Detwiler Road sville, PA 19438	
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	Honeywe
	SCHEDULE
	APPV-SMV800-CE
	Revision: D
Type Examination Certifica Equipment Group Ex ec IIC T Ex ic IIC T4 FISCO Fiel	te No: SIRA 15ATEX4040 Protection : Non Sparking 'n' and FISCO II Category 3 G 4 Ga [Ta = 50°C TO 70°C) 66 [Ta = 50°C TO 45°C) d Device
Harmonized Stand EN 60079-	lards : -0: 2012/A11: 2013 EN 60079-11: 2012 EN 60079-7: 2015
Hawarden, Deeside, CHS 3 United Kingdom ATEX Notified Body for Qua DEKRA Certification B.V. [I Meander 1051 6825 MJ Arnhem The Netherlands	US, Ifty Assurance Votified Body Number: 0344]
ssure Equipment Direct	tive (PED) (2014/68/EU)
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ssure Equipment Direct ASME Boller and Pressure Pressure Transmitter Absolute Pressure SMA 810 SMA 845 Gauge Pressure SMG870	tive (PED) (2014/68/EU) Vessel Code Section VIII 'Rules for Construction of Pressure Vessels: 2000 PED Module Sound Engineering Practice (SEP) Module A

AGENCY	TYPE OF PROTECTION	Electrical	Ambient
		Parameters	Temperature
	Explosion proof: Class I, Division 1, Groups A, B, C, D Class I, Zone 0/1, AEx db IIC T6T5 Ga/Gb Dust Ignition Proof: Class II, Division 1, Groups E, F, G; Suitable for Division 1, Class II, Zone 21, AEx tb IIIC T 95°C Db	Note 1	T95 ℃ /T5: -50 ℃ to 85℃ T6: -50 ℃ to 65℃
FM Approvals™	Intrinsically Safe: Class I, II, III, Division 1, Groups A, B, C, D, E, F, G Class I Zone 0 AEx ia IIC T4 Ga	Note 2	T4: -50°C to 70°C
	Non-Incendive and Intrinsically Safe: Class I, Division 2, Groups A, B, C, D Class I Zone 2 AEx nA IIC T4 Gc	Note 1	T4: -50°C to 85°C
	Enclosure: Type 4X/ IP66/ IF	67	
	Standards: FM 3600:2011; A 3615:2006; ANSI/ ISA 60079- 60079-31 : 2013; FM 3610:20 3810 : 2005 ; ANSI/ ISA 6007 ISA 60079-15 : 2012 ; FM 38 2004;NEMA 250 : 2003 ; ANS	NSI/ ISA 6007 1 : 2013; FM : 15; ANSI/ ISA 9-26 : 2011; F 10 : 2005; AN 6/ IEC 60529	79-0: 2013; FM 3616 : 2011 ; ANSI/ ISA 60079-11 : 2012; FM 5M 3611:2004; ANSI/ SI/ ISA 61010-1: : 2004

CSA- Canada	Explosion proof: Class I, Division 1, Groups A, B, C, D Dust Ignition Proof: Class II, III, Division 1, Groups E, F, G Suitable for Division 1, Class III; Zone 0/1, Ex db IIC T6T5 Ga/Gb Class I, Zone 0/1, AEx db IIC T6T5 Ga/Gb Ex tb IIIC T 95°C Db Class II, Zone 21, AEx tb IIIC T 95°C Db	Note 1	T5: -50 °C to 85°C T6: -50 °C to 65 °C		
	Intrinsically Safe: Class I, II, III, Division 1, Groups A, B, C, D, E, F, G; Ex ia IIC T4 Ga	Note 2	T4: -50°C to 70°C		
	Non-Incendive and Intrinsically Safe: Class I, Division 2, Groups A, B, C, D Ex nA IIC T4 Gc Class I Zone 2 AEx nA IIC T4 Gc	Note 1	T4: -50°C to 85°C		
	Enclosure: Type 4X/ IP66/ IP	67			
	Standards: CSA C22.2 No 0: 2010; CSA C22.2 No 0.0M91; CSA C22.2 No 25: 1966; CSA C22.2 No 30M; 1986; CSA C22.2 No. 142M: 1987; CAN/ CSA-C22.2 No 157: 1992; CSA C22.2 No 213M: 1987; CSA C22.2 No 60529: 2005; CSA C22.2 No 60079-0: 2011; CSA C22.2 No 60079-1: 2011; CSA C22.2 No 60079-0: 2011; CSA C22.2 No 60079-1: 2011; CSA C22.2 No 60079-0: 2011; CSA C22.2 No 60079-1: 2011; CSA C22.2 No 60079-0: 2011; C21: 60079-15: 2012; CSA C22.2 60079-11: 2012; ISA 60079-11: 2012; ISA 60079-11: 2011; ANSI/ ISA 60079-01: 2009; ANSI/ ISA 60079-21: 2011; ISA 60079-22: R2011; UL 913: ed 6; UL 916: 1998 198 198 198				

ATEX	Flameproof: Sira 15ATEX2039X II 1/2 G Ex db IIC T6T5 Ga/Gb II 2 D Ex tb IIIC T 95°CT125°C Db Intrinsically Safe: Sira 15ATEX2039X II 1 G Ex ia IIC T4 Ga Non Sparking and Intrinsically Safe: Sira12ATEX4234X II 3 G Ex ec IIC T4 Gc	Note 1 Note 2 Note 1	T5/ T95°C: -50 °C to 85°C T6: -50 °C to 65°C T4: -50°C to 70°C T4: -50°C to 85°C		
	Standards: EN 60079-0: 2012+A11: 2013; EN 60079-1: 2007; EN 60079-11: 2012; EN 60079-31: 2014 EN 60079-26: 2007; EN 60529: 2000 + A1; EN 60079-15: 2010				
	Enclosure: IP66/ IP67				
	Intrinsically Safe: IECEx SIR 15.0022X Ex ia IIC T4 Ga	Note 2	T4: -50°C to 70°C		
IECEx	Non Sparking: IECEx SIR 15.0022X Ex ec IIC T4 Gc	Note 1	T4: -50°C to 85°C		
	Flameproof: Ex db IIC T6T5 Ga/Gb Ex tb IIIC T 95°C125 °C Db	Note 1	T5: -50 °C to 85°C T6: -50 °C to 65°C		
	Enclosure: IP66/ IP67				
	Standards: IEC 60079-0: 2011; IEC 60079-1 : 2007; IEC 60079-11: 2011; IEC 60079-15 : 2011; IEC 60079-31 : 2013; IEC 60079-26 : 2006				
CCoF	Intrinsically Safe: Ex ia IIC T4 Ga	Note 2	T4: -50°C to 70°C		
(India)	Non Sparking: Ex ec IIC Gc	Note 1	T4: -50°C to 85°C		
	Flameproof: Ex db IIC T6T5 Ga/Gb Ex tb IIIC T95°CT125 °C Db	Note 1	T5: -50 ℃ to 85℃ T6: -50 ℃ to 65℃		
SAEx (South Africa)	Intrinsically Safe: Ex ia IIC T4 Ga	Note 2	T4: -50°C to 70°C		
	Non Sparking: Ex ec IIC Gc	Note 1	T4: -50°C to 85°C		
	Flameproof: Ex db IIC T6T5 Ga/Gb Ex tb IIIC T95°CT125 °C Db	Note 1	T5: -50 ℃ to 85℃ T6: -50 ℃ to 65℃		
	Enclosure: IP66/ IP67				

AGENCY	TYPE OF PROTECTION	Ambient Temperature	
	Explosion proof: Class I, Division 1, Groups A, B, C, D Dust Ignition Proof: Class II, III, Division 1, Groups E, F, G Suitable for Division 1, Class III; Zone 0/1, Ex db IIC T6T5 Ga/Gb Class I, Zone 0/1, AEx db IIC T6T5 Ga/Gb Ex tb IIIC T 95°C Db Class II, Zone 21, AEx tb IIIC T 95°C Db	T5: -50 ℃ to 85℃ T6: -50 ℃ to 65 ℃	
CSA- Canada	Non-Incendive and Intrinsically Safe: Class I, Division 2, Groups A, B, C, D Ex nA IIC T4 Gc Class I Zone 2 AEx nA IIC T4 Gc Enclosure: Twe 4X/ IP66/ IP67	T4: -50°C to 85°C	
	Standards: CSA C22:2 No 20:10 CSA C22:2 No 0:10 10:10 10:20 11:20 11:20 11:20 11:20 11:20 11:20 11:20 11:20 <th11:20< th=""> 11:20 <th11:20< <="" td=""></th11:20<></th11:20<>		

General:

The following information is provided as part of the labeling of the transmitter: • Name and Address of the manufacturer • Notified Body identification: DEKRA Quality B.V., Arnhem, the Netherlands



INMETRO (Brazil)	Ex ia IIC Ga	Note 2	T4: -50°C to 70°C		
	Non Sparking: Ex ec IIC T4 Gc	Note 1	T4: -50°C to 85°C		
	Flameproof: Ex db IIC T6T5 Ga/Gb Ex tb IIIC T 95°CT125 °C Db	Note 1	T5: -50 ℃ to 85℃ T6: -50 ℃ to 65℃		
. ,	Enclosure: IP66/ IP67				
	Standards: ABNT NBR IEC 60079-0:2013 (IEC 60079-0:2011); ABNT 11:2013 (IEC 60079-11:2011); ABNT NBR IEC 60079-15:2012 (IEC 6 ABNT NBR IEC 60079-31:2014 (IEC 60079-31:2013).			T NBR IEC 600 60079-15:2010	
	Intrinsically Safe: Ex ia IIC T4 Ga	Note	2 T4: -50°C to 70°C	T	
NEPSI (CHINA)	Non Sparking: Ex nA IIC T4 Gc	Note	1 T4: -50°C to 85°C	1	
	Flameproof: Ex d IIC T6T5 Ga/Gb Ex tb IIIC Db T95°CT125 °C Db	Note	1 T5: -50 °C to 85°C T6: -50 °C to 65°C		
	Enclosure: IP66/ IP67				
KOSHA (Korea)	Flameproof: Ex d IIC T6T5 Ex tD A21 T 95°CT125 °C	Note	1 T5: -50 °C to 85°C T6: -50 °C to 65°C		
	Intrinsically Safe: Ex ia IIC Ga	Note	2 T4: -50°C to 70°C		
	Ex d IIC T6T5 Ga/Gb Ex tb IIIC T95°C Db	Note	1 T5: -50 °C to 85°C T6: -50 °C to 65°C		
EAC Ex	Intrinsically Safe: Ex ia IIC T4 Ga	Note	2 T4: -50 °C to 70°C		
	Non Sparking: 2 Ex nA IIC T4 Gc	Note	1 T4: -50°C to 85°C		
	Enclosure : IP 66/67				
Notes					

1. Operating Parameters:

Voltage= 11 to 42 V Current= 4-20 mA Normal (3.8 - 23 mA Faults)

2. Intrinsically Safe Entity Parameters

Vmax= Ui= 30 V	In	nax= li= 225mA	Ci=4 nF	Li= 0 uH

A.5 Conditions of Use" for Ex Equipment", Hazardous Location Equipment or "Schedule of Limitations":

Apparatus Marked with Multiple Types of Protection The user must determine the type of protection required for installation the equipment. The user shall then check the box [] adjacent to the type of protection used on the equipment certification nameplate. Once a type of protection has been checked on the nameplate, the equipment shall not then be reinstalled using any of the other certification types.

Painted surface of the SMV800 may store electrostatic charge and become a source of ignition in applications with a low relative humidity less than approximately30% relative humidity where the painted surface is relatively free of surface contamination such as dirt, dust or oil. Cleaning of the painted surface should only be done with a damp cloth.

Flame-proof Installations: The Transmitter can installed in the boundary wall between an area of EPL Ga/ Class I Zone 0/ Category 1 and the less hazardous area, EPL Gb/ Class I Zone 1/ Category 2. In this configuration, the process connection is installed in EPL Ga/ Class I Zone 0/ Category 1, while the transmitter housing is located in EPL Ch/ Class I Zone 0/ Category 1, while the transmitter housing is located in EPL Gb/ Class I Zone 1/ Category 2.

Consult the manufacturer for dimensional information on the flameproof joints for repair.

WARNING: DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT

Non-Incendive Equipment:

Division 2: This equipment is suitable for use in a Class I, Division 2, Groups A, B, C, D; T4 or Non-Hazardous Locations Only

WARNING: DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT

Intrinsically Safe: Must be installed per drawing 50128060

The enclosure is manufactured from low copper aluminum alloy. In rare cases, ignition sources due to impact and friction sparks could occur. This shall be considered during Installation, particularly if equipment is installed a Zone 0 location.

If a charge-generating mechanism is present, the exposed metallic part on the enclosure is capable of storing a level of electrostatic that could become Incendive for IIC gases. Therefore, the user/ installer shall implement precautions to prevent the buildup of electrostatic charge, e.g. earthing the metallic part. This is particularly important if equipment is installed a Zone 0 location.

WARNING: SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR USE IN HAZARDOUS LOCATIONS

All Protective Measures:

WARNING: FOR CONNECTION IN AMBIENTS ABOVE 60°C USE WIRE RATED 105°C









Sales and Service

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

ASIA PACIFIC (TAC) <u>hfs-tac-support@honeywell.com</u> 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 Pte Ltd. Phone: +(822)799 6114. Fax: +(822) 792 9015 **EMEA**, Phone: + 80012026455 or +44 (0)1202645583. FAX: +44 (0) 1344 655554

Email: (Sales) <u>sc-cp-apps-salespa62@honeywell.com</u> or (TAC) <u>hfs-tac-support@honeywell.com</u>

AMERICAS, Honeywell Process Solutions, Phone: 1-800-423-9883, or 1-215/641-3610. (TAC) <u>hfs-tac-support@honeywell.com</u>. Sales 1-800-343-0228. Email: (Sales) <u>ask-ssc@honeywell.com</u>

WARRANTY/REMEDY

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Contact your local sales office for warranty information. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace without charge those items it finds defective. The foregoing is Buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use. While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application.

For more information To learn more about SmartLine Transmitters, visit <u>www.honeywellprocess.com</u> Or contact your Honeywell Account Manager

Process Solutions

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www.honeywellprocess.com

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