

Product Compatibility

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It is important to understand the following compatibility issues involved when retrofitting parts to the Model 3095MV:

- Electronics (output) board revisions
- Sensor module software revisions
- LCD meter
- Hardware compatibility issues

Please read this section carefully if you plan to retrofit existing Model 3095MV transmitters with new components.

REVISION LEVEL INDICATORS

Determine the revision level of the Model 3095MV transmitter electronics board and sensor module using the Engineering Assistant (EA) software or the Model 275 HART Communicator.

EA Software

From the AMS context menu, select *Configuration Properties < Device Tab < DPSnr*.

Model 275 HART Communicator

Select *1 Device Setup, 3 Basic Setup, 4 Device Info, and 9 Revisions*.

Electronics Board

Use Table S-1 to assist in determining the electronics board revision level of the Model 3095MV transmitter.

Table S-1. Electronics Software Board Revisions

Electronics Board	Transmitter Serial Number	Shipment Start Date
Revision 15	55,660 and above	12/00
Revision 13	32,400 and above	3/99
Revision 12	28,600 and above	11/98
Revision 10	20,000 and above	12/97
Revision 9	15,600 and above	5/97
Revision 8	10,000 and above	8/96
Revision 5	3,675 and above	1/96
Revision 4	2,822 and above	10/95

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Sensor Module

Table S-2 lists the sensor module revision, the transmitter serial number, the shipment start date, and the process temperature range.

Table S-2. Sensor Module Software Revisions

Sensor Module Revision	Transmitter Serial Number	Shipment Start Date	Process Temperature Range
149	>28,600	11/98	-150 to 1500 °F (-101 to 815 °C) ⁽¹⁾
142(b)	10,000–40,000	8/96	-40 to 1200 °F (-40 to 649 °C)
142(a)	0–9,999	10/95	-40 to 400 °F (-40 to 204 °C)

(1) Electronic Board Revision 12 and 13 supported Process Temperature Range -300 to 1500 °F (-184 to 815 °C)

SENSOR LIMITS

Tables S-3, S-4, and S-5 identify the Model 3095MV sensor limits.

Table S-3. Sensor Limits for Sensor Module Revision 149.

Sensor Range	LRL ⁻ (1)	LRL	URL	URL ⁺ (2)
Flow	No limit	0	op-limits calc ⁽³⁾	no limit
DP Range 1	-27.5 inH ₂ O @ 68 °F	-25 inH ₂ O @ 68 °F	25 inH ₂ O @ 68 °F	27.5 inH ₂ O @ 68 °F
DP Range 2	-275 inH ₂ O at 68 °F	-250 inH ₂ O at 68 °F	250 inH ₂ O at 68 °F	275 inH ₂ O at 68 °F
DP Range 3	-1100 inH ₂ O at 68 °F	-1000 inH ₂ O at 68 °F	1000 inH ₂ O at 68 °F	1100 inH ₂ O at 68 °F
AP Range 3	0 psia ⁽⁴⁾	0.5 psia	800 psia	880 psia
AP Range 4	0 psia ⁽⁴⁾	0.5 psia	3,626 psia	3,988 psia
GP Range C	-0.15 psig	0 psig	800 psig	880 psig
GP Range D	-0.15 psig	0 psig	3,626 psig	3,988 psig
PT (5)	-165 °F (-109 °C) ⁽⁶⁾	-150 °F (-101 °C) ⁽⁷⁾	1500 °F (815 °C)	1550 °F (843 °C)
Sensor Temperature	-47 °F (-44 °C)	-40 °F (-40 °C)	185 °F (85 °C)	200 °F (93.5 °C)

(1) LRL⁻ is equal to LRV and lower sensor trim limits.

(2) URL⁺ is equal to URV and upper sensor trim limits.

(3) The flow rate when DP=URL⁺, AP=UOL, and PT=LLOL. This value is calculated by the EA.

(4) For output board versions below 10, LRL⁻ is 0.45 psia.

(5) In the fixed temperature mode, PT range is -459 to 3500 °F (-273 to 1927 °C).

(6) Electronic Board Revision 12 and 13 supported -330 °F (-201 °C).

(7) Electronic Board Revision 12 and 13 supported -300 °F (-185 °C).

Table S-4. Sensor Limits for Sensor Module Revision 142B

Sensor Range	LRL ⁻ (1)	LRL	URL	URL ⁺ (2)
Flow	No limit	0	op-limits calc ⁽³⁾	no limit
DP Range 2	-275 inH ₂ O at 68 °F	-250 inH ₂ O at 68 °F	250 inH ₂ O at 68 °F	275 inH ₂ O at 68 °F
DP Range 3	-913 inH ₂ O at 68 °F	-830 inH ₂ O at 68 °F	830 inH ₂ O at 68 °F	913 inH ₂ O at 68 °F
AP Range 3	0 psia ⁽⁴⁾	0.5 psia	800 psia	880 psia
AP Range 4	0 psia ⁽⁴⁾	0.5 psia	3,626 psia	3,988 psia
GP Range C	-0.15 psig	0 psig	800 psig	880 psig
GP Range D	-0.15 psig	0 psig	3,626 psig	3,988 psig
PT (5)	-44 °F (-42 °C)	-40 °F (-40 °C)	1200 °F (649 °C)	1220 °F (660 °C)
Sensor Temperature	-47 °F (-44 °C)	-40 °F (-40 °C)	185 °F (85 °C)	200 °F (93.5 °C)

(1) LRL⁻ is equal to LRV and lower sensor trim limits.

(2) URL⁺ is equal to URV and upper sensor trim limits.

(3) The flow rate when DP=URL⁺, AP=UOL, and PT=LLOL. This value is calculated by the EA.

(4) For output board versions below 10, LRL⁻ is 0.45 psia.

(5) In the fixed temperature mode, PT range is -459 to 3500 °F (-273 to 1927 °C).

Table S-5. Sensor Limits for Sensor Module Revision 142A

Sensor Range		LRL	URL	URL+(2)
Flow	No limit	0	op-limits calc(3)	no limit
DP Range 2	-275 inH ₂ O at 68 °F	-250 inH ₂ O at 68 °F	250 inH ₂ O at 68 °F	275 inH ₂ O at 68 °F
DP Range 3	-913 inH ₂ O at 68 °F	-830 inH ₂ O at 68 °F	830 inH ₂ O at 68 °F	913 inH ₂ O at 68 °F
AP Range 3	0.45 psia(4)	0.5 psia	800 psia	880 psia
AP Range 4	0.45 psia(4)	0.5 psia	3,626 psia	3,988 psia
PT (5)	-44 °F (-42 °C)	-40 °F (-40 °C)	400 °F (205 °C)	440 °F (224.4 °C)
Sensor Temperature	-47 °F (-44 °C)	-40 °F (-40 °C)	185 °F (85 °C)	200 °F (93.5 °C)

- (1) LRL- is equal to LRV and lower sensor trim limits.
- (2) URL+ is equal to URV and upper sensor trim limits.
- (3) The flow rate when DP=URL+, AP=UOL, and PT=LOL. This value is calculated by the EA.
- (4) For output board versions below 10, LRL- is 0.45 psia.
- (5) In the fixed temperature mode, PT range is -459 to 3500 °F (-273 to 1927 °C).

ELECTRONICS COMPATIBILITY

Table S-6 lists electronics compatibility issues between the electronics board, the sensor module, and the LCD meter.

Table S-6. Electronics Compatibility Table

Electronics Software Board	Sensor Software Module			LCD Meter
	Revision 142(a)	Revision 142(b)	Revision 149	
				LCD Meter
Revision 4 and 5	Compatible	Compatible	Not Compatible	Not Compatible
Revision 8, 9, and 10	Compatible	Compatible	Not Compatible	Not Compatible
Revision 12, 13, and 15	Compatible	Compatible	Compatible	Compatible

HARDWARE COMPATIBILITY

Table S-7 lists hardware compatibility issues between new and old housings and the internal components.

Table S-7. Hardware Compatibility Issues

Housing	Terminal Block		Electronics Board		Sensor Module		LCD Meter
	New	Old	New(1)	Old(2)	New	Old	
New	Compatible	Not Compatible	Compatible	Compatible	Compatible	Compatible	LCD Meter
Old	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible

- (1) Revision 12 and 13, and 15.
- (2) Revision 10 and below.

COMMUNICATION COMPATIBILITY

	Electronic Software 8 and older	Electronic Software 9 and newer	Sensor Module Software Revision 149 and 142
EA 4.0 and older	Compatible	Compatible	Compatible
EA 5.0 and newer	Not Compatible	Compatible	Compatible

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EA Software Revisions

EA Revision	Date Effective	Features
3.5	11/97	<ul style="list-style-type: none"> Lowest recommended revision of EA software. Contact a Rosemount Sales Representative to upgrade older revisions of the EA software. Verifies Range Values so range values are not overwritten if new flow configuration is sent to the transmitter.
4.0	11/98	<ul style="list-style-type: none"> Required for LCD meter and Totalizer setup. Special Units setup for Flow and Flow Total Supports configurable DP Low Flow Cutoff Supports Extended Process Temperature and Range 1 DP Supports Annubar[®] Diamond II+ / Mass ProBar[®] Includes On-Line manual
5.0	11/00	<ul style="list-style-type: none"> 32 bit OS platform for Microsoft[®] Windows[®] 95, 98, and NT 4.0 Target AMS and AMS SNAP-ON[™] Supports ISO5167 Amd. 1, Flange, Corner, and D&D/2 Tap Orifice
5.1	6/01	<ul style="list-style-type: none"> Supports Model 1195 Integral Orifice and Mass ProPlate
5.2	10/02	<ul style="list-style-type: none"> Supports OS platforms for Microsoft Windows 98, NT, and 2000 Supports ISO 12213 Natural Gas Supports Model 405P Compact Orifice Supports Model 485 Annubar / Mass ProBar Includes Print Functionality Includes on-line help

HART Communicator Model 275 Revisions

Field Device Revision	Date Effective	Features
1, DD Rev. 5	10/95	<ul style="list-style-type: none"> Initial Model 3095 MV DD release
1, DD Rev. 7	9/97	<ul style="list-style-type: none"> Recognizes Gauge Pressure as a Field Device Variable Compatible with Back-up Process Temperature Mode Will not communicate with new Rev. 12 electronics board (11/98) if "Flow Total" is selected as a process variable
2, DD Rev. 1	12/98	<ul style="list-style-type: none"> Required for LCD meter and Totalizer setup Special Units setup for Flow and Flow Total Supports configurable DP Low Flow Cutoff Supports Extended Process Temperature and Range 1 DP Supports Annubar[®] Diamond II+ / Mass ProBar[®]
2, DD Rev 2	3/00	<ul style="list-style-type: none"> Remove PV damping Add loop warning message

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Emerson Process Management

Rosemount Inc.
 8200 Market Boulevard
 Chanhassen, MN 55317 USA
 T (U.S.) 1-800-999-9307
 T (International) (952) 906-8888
 F (952) 949-7001

Fisher-Rosemount GmbH & Co.
 Shipping Address:
 Argelsrieder Feld 3
 82234 Wessling
 Germany
 Tel 49 (8153) 9390
 Fax 49 (8153) 939172

Emerson Process Management Asia Pacific Private Limited
 1 Pandan Crescent
 Singapore 128461
 T (665) 777 8211
 F (665) 777 0947
 AP.RMT-Specialist@emersonprocess.com

www.rosemount.com

