Micro Motion[™] UL-D-IS Installation Instructions, MVD[™] Transmitters

Preparation



Safety messages

Safety messages are provided throughout this manual to protect personnel and equipment. Read each safety message carefully before proceeding to the next step.

Safety and approval information

This Micro Motion product complies with all applicable European directives when properly installed in accordance with the instructions in this manual. Refer to the EU declaration of conformity for directives that apply to this product. The EU declaration of conformity, with all applicable European directives, and the complete ATEX Installation Drawings and Instructions are available on the internet at www.emerson.com or through your local Micro Motion support center.

Information affixed to equipment that complies with the Pressure Equipment Directive, can be found on the internet at www.emerson.com.

For hazardous installations in Europe, refer to standard EN 60079-14 if national standards do not apply.

Other information

Full product specifications can be found in the product data sheet. Troubleshooting information can be found in the configuration manual. Product data sheets and manuals are available from the Micro Motion web site at www.emerson.com.

Return policy

Follow Micro Motion procedures when returning equipment. These procedures ensure legal compliance with government transportation agencies and help provide a safe working environment for Micro Motion employees. Micro Motion will not accept your returned equipment if you fail to follow Micro Motion procedures.

Return procedures and forms are available on our web support site at www.emerson.com, or by phoning the Micro Motion Customer Service department.

Emerson Flow customer service

Email:

Worldwide: flow.support@emerson.com

Asia-Pacific: APflow.support@emerson.com

Telephone:

North and South America		Europe and Middle	East Asia Pacific		
United States	800-522-6277	U.K.	0870 240 1978	Australia	800 158 727
Canada	+1 303-527-5200	The Netherlands	+31 (0) 704 136 666	New Zealand	099 128 804
Mexico	+41 (0) 41 7686 111	France	0800 917 901	India	800 440 1468
Argentina	+54 11 4837 7000	Germany	0800 182 5347	Pakistan	888 550 2682
Brazil	+55 15 3413 8000	Italy	8008 77334	China	+86 21 2892 9000
		Central & Eastern	+41 (0) 41 7686 111	Japan	+81 3 5769 6803
		Russia/CIS	+7 495 995 9559	South Korea	+82 2 3438 4600
		Egypt	0800 000 0015	Singapore	+65 6 777 8211
		Oman	800 70101	Thailand	001 800 441 6426
		Qatar	431 0044	Malaysia	800 814 008
		Kuwait	663 299 01		
		South Africa	800 991 390		
		Saudi Arabia	800 844 9564		
		UAE	800 0444 0684		

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Before you begin

About this document 1.1

Use this manual to ensure that any applicable Micro Motion flow meter installation complies with Underwriter Laboratories (UL) safety standards.

The information in this document assumes that users understand basic transmitter and sensor installation concepts and procedures.

This manual provides only information associated with installation of transmitters through UL-D IS, MVD instructions. For complete information on flow meter installation, see the documentation provided with your sensor and transmitter.

1.2 **Hazard messages**

This document uses the following criteria for hazard messages based on ANSI standards Z535.6-2011 (R2017).



DANGER

Serious injury or death will occur if a hazardous situation is not avoided.



WARNING

Serious injury or death could occur if a hazardous situation is not avoided.



CAUTION

Minor or moderate injury will or could occur if a hazardous situation is not avoided.

NOTICE

Data loss, property damage, hardware damage, or software damage can occur if a situation is not avoided. There is no credible risk of physical injury.

Physical access

NOTICE

Unauthorized personnel can potentially cause significant damage and/or misconfiguration of end users' equipment. Protect against all intentional or unintentional unauthorized use.

Physical security is an important part of any security program and fundamental to protecting your system. Restrict physical access to protect users' assets. This is true for all systems used within the facility.

Before you begin November 2019

Hazardous area installations 1.3

If your cable will be installed in a hazardous area, ensure that it meets the hazardous area requirements.



WARNING

Failure to maintain intrinsic safety in a hazardous area could cause an explosion resulting in injury or death.

To keep sensor wiring intrinsically safe:

- Keep intrinsically safe (IS) sensor wiring separate from power supply wiring and output wiring.
- Do not install power cable in the same conduit or cable tray as flow meter cable.
- Use this document with the appropriate approvals documentation. These manuals are shipped with the flow meter or available at www.emerson.com.
- For hazardous area installations in Europe, refer to standard EN 60079-14 if national standards do not apply.

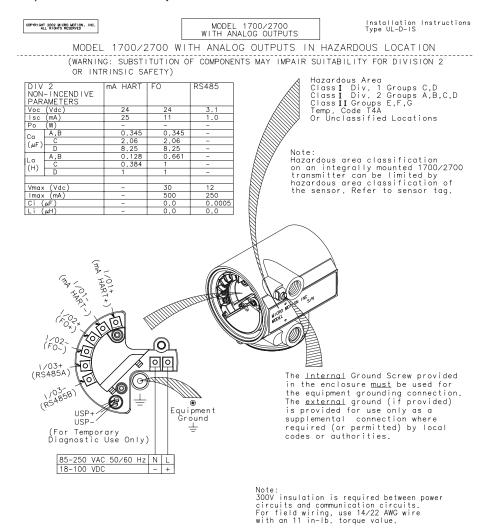
2 1700 and 2700 transmitters

2.1 1700 and 2700 transmitter outputs

List of drawings

Transmitter	Drawing	
1700/2700 mA Outputs	EB-3600478, Revision DA	
1700/2700 intrinsically safe outputs	EB-3600630, Revision EA	
2700 configurable inputs and outputs	EB-3600666, Revision CA	
1700/2700 FOUNDATION [™] fieldbus outputs	EB-3600475, Revision G	
1700/2700 Profibus-PA outputs	EB-3600472, Revision G	

2.1.1 1700/2700 mA Outputs



(WARNING: DO NOT REMOVE OR REPLACE FUSES WHILE CIRCUIT IS LIVE UNLESS THE AREA IS KNOWN TO BE FREE OF IGNITABLE CONCENTRATIONS OF FLAMMABLE SUBSTANCES)

(WARNING: EXPLOSION HAZARD. DO NOT DISCONNECT WHILE THE CIRCUIT IS LIVE OR UNLESS THE AREA IS KNOWN TO BE FREE OF IGNITABLE CONCENTRATIONS)

Electronics: 1700/2700 ANALOG

EB-3600478 Rev. DA SHT 1 OF 1

2.1.2 1700/2700 intrinsically safe outputs

USP-(For Temporary Diagnostic Use Only)

85-250 VAC 50/60 Hz N L 18-100 VDC - +



MODEL 1700/2700 WITH I.S. OUTPUTS

Installation Instructions Type UL-D-IS

MODEL 1700/2700 WITH I.S. OUTPUTS IN HAZARDOUS LOCATION

(WARNING: SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR DIVISION 2 OR INTRINSIC SAFETY)

Hazardous Area Class I Div. 1 Groups C,D Class I Div. 2 Groups A,B,C,D Class II Groups E,F,G Temp. Code T4 DIVISON 1 I.S. OUTPUT DIVISON 2 NON-INCENDIVE ENTITY PARAMETERS PARAMETERS mA1 HART, mA2 mA1 HART, Or Unclassified Locations FΩ FΟ mA2 VMAX 30 Vdc 30 Vdc VMAX 30 Vdc 30 Vdc Note: Hazardous area classification on an integrally mounted 1700/2700 transmitter can be limited by hazardous area classification of the sensor. Refer to sensor tag. Imax 300 mA Pmax 1.0W Ci 0.0005μF 100 mA 0.75W 0.0005μF Ci 0.0005µF 0.0005µF 0.0μΗ 0.0µH Warning:
To reduce the risk of ignition of hazardous atmospheres, listed explosionproof cable seals or conduit seals must be installed within 2 inches of the wiring compartment enclosure. FO-이이 The <u>Internal</u> Ground Screw provided mA2

The Internal Ground Screw provided in the enclosure <u>must</u> be used for the equipment grounding connection. The <u>external</u> ground (if provided) is provided for use only as a supplemental connection where required (or permitted) by local codes or authorities. Equipment Ground =

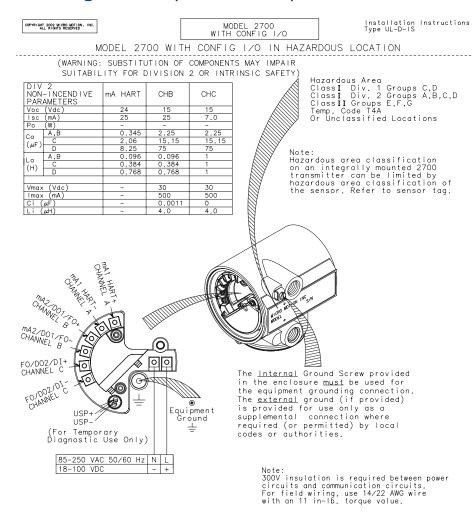
- Notes:
 1. Install intrinsically safe systems in accordance with this drawing and Article 504 of the National Electrical Code, NFPA 70. Refer to ISA RP12.6 for recommended practices for installing intrinsically safe equipment.
- 2. 300V insulation is required between power circuits and communication circuits. For field wiring, use 14/22 AWG wire with an 11 in-lb. torque value.

(WARNING: DO NOT REMOVE OR REPLACE FUSES WHILE CIRCUIT IS LIVE UNLESS THE AREA IS KNOWN TO BE FREE OF IGNITABLE CONCENTRATIONS OF FLAMMABLE SUBSTANCES)

(WARNING: EXPLOSION HAZARD, DO NOT DISCONNECT WHILE THE CIRCUIT IS LIVE OR UNLESS THE AREA IS KNOWN TO BE FREE OF IGNITABLE CONCENTRATIONS)

Electronics: 1700/2700 I.S. OUTPUT

2.1.3 2700 configurable inputs and outputs



(WARNING: DO NOT REMOVE OR REPLACE FUSES WHILE CIRCUIT IS LIVE UNLESS THE AREA IS KNOWN TO BE FREE OF IGNITABLE CONCENTRATIONS OF FLAMMABLE SUBSTANCES)

(WARNING: EXPLOSION HAZARD. DO NOT DISCONNECT WHILE THE CIRCUIT IS LIVE OR UNLESS THE AREA IS KNOWN TO BE FREE OF IGNITABLE CONCENTRATIONS)

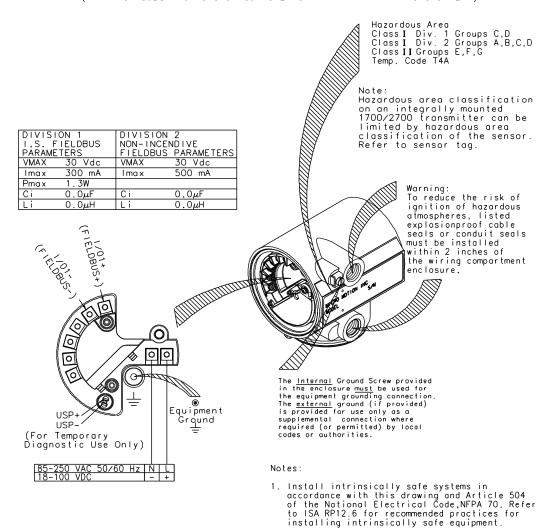
Electronics: 2700 CONFIG I/O

EB-3600666 Rev. CA

2.1.4 1700/2700 FOUNDATION[™] fieldbus outputs

MODEL 1700/2700 WITH FIELDBUS IN HAZARDOUS LOCATION

(WARNING: SUBSTITUTIONS OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY)



Electronics: 1700/2700 FIELDBUS

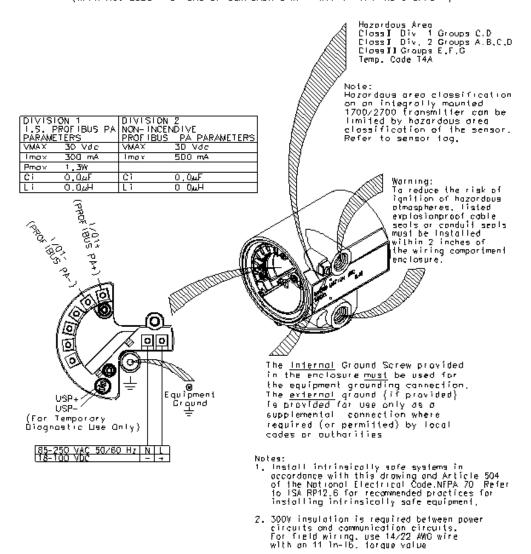
 300V insulation is required between power circuits and communication circuits.
 For field wiring, use 14/22 AWG wire with an 11 in-lb. torque value.

> EB-3600475 Rev.G SHT 1 OF 1

2.1.5 1700/2700 Profibus-PA outputs

MODEL 1700/2700 WITH PROFIBUS PA IN HAZARDOUS LOCATION

(WARNING: SUBSTITUTIONS OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY)



Electronics: 1700/2700 PROFIBUS PA

EB-3600472 Rev G

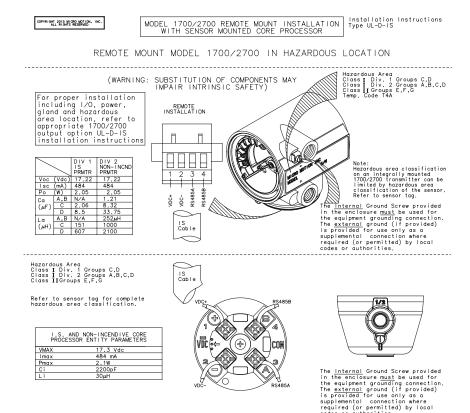
2.2 1700/2700 4-wire installations

List of drawings

Installation	Drawing
1700/2700 4-wire with core processor and sensor	EB-3600481, Revision DA
1700/2700 4-wire with core processor and CMF400 sensor with booster amplifier	EB-3005809, Revision D
1700/2700 4-wire with core processor and D600 sensor	EB-1005075, Revision C

2.2.1 1700/2700 4-wire with core processor and sensor

This drawing does not apply to D600 sensors or CMF400 sensors with a booster amplifier.



INSTALLATION NOTES:

ASSOCIATED APPARATUS PARAMETER LIMITS

	Voc < = Vmax						
	Isc < = Imax						
	(Voc x Isc) / 4 < = Pmax						
	*Ca > = Ccable + Ci1 + Ci2 + , , , + Cin						
	*La > = Lcable + Li ¹ + Li ² + + Li ⁿ						
*	The total Ci is equal to the sum of all total capacitance of all cable on the n	Ci's of all etwork,	devices	on the	network.	Ccable	is the
*	The total Li is equal to the sum of all total inductance of all cable on the ne	Li's of all twork,	devices	on the	network.	Lcable	is the
	If the electrical parameters of the cab	le are unknov	wn, then	the fol	lowing vo	alues mag	y be

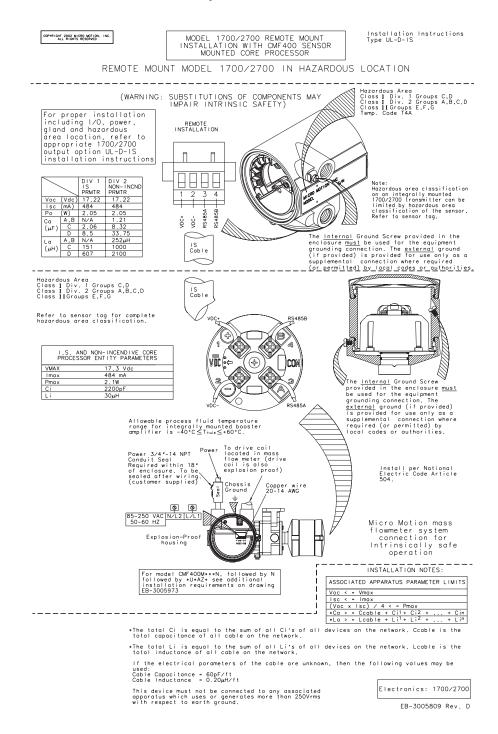
Gable Capacitance = 60pF/ft
Cable Inductance = 0.20pH/ft
This device must not be connected to any associated apparatus which uses or generates more than 250Vrms with respect to earth ground.

Micro Motion mass flowmeter system connection for Intrinsically safe operation

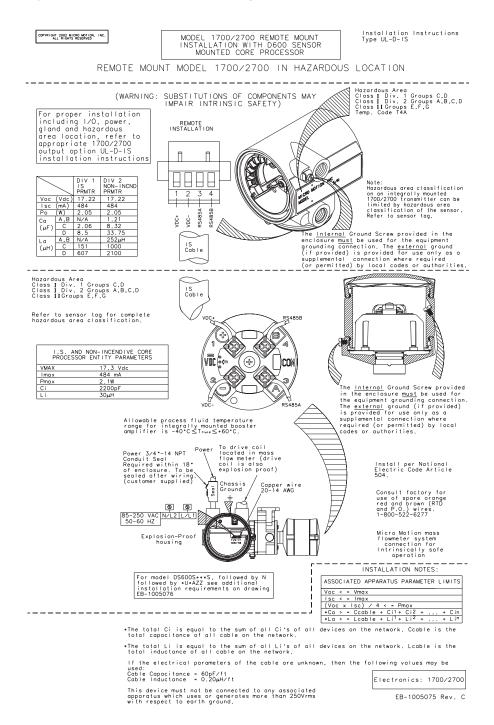
Electronics: 1700/2700

EB-3600481 Rev. DA SHT 1 OF 1

2.2.2 1700/2700 4-wire with core processor and CMF400 sensor with booster amplifier



2.2.3 1700/2700 4-wire with core processor and D600 sensor



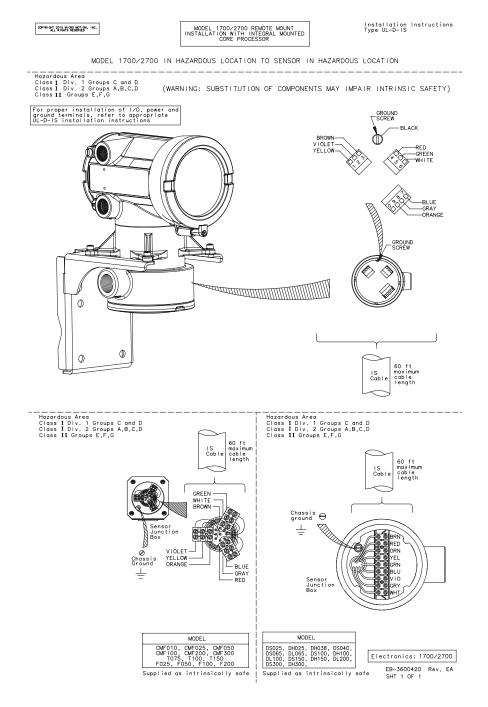
2.3 1700/2700 integral core processor installations

List of drawings

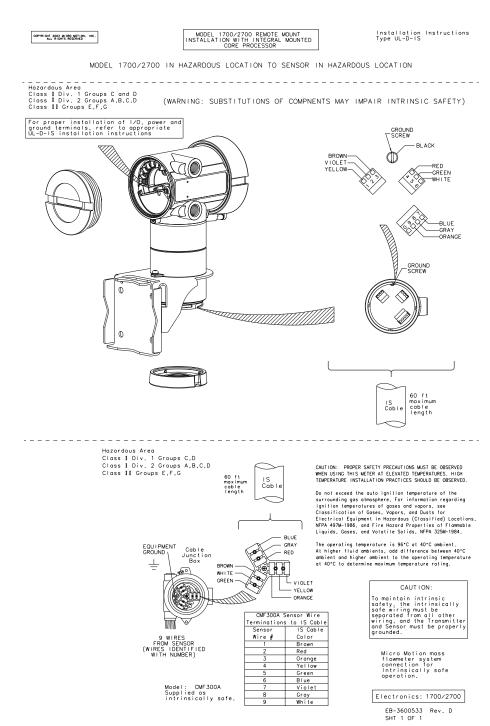
Installation	Drawing	
1700/2700 with integral core processor and CMF, F, T, D, or DL sensors	EB-3600420, Rev EA	
1700/2700 with integral core processor and CMF300A sensor	EB-3600533, Revision D	
1700/2700 with integral core processor and CMF400 sensor with booster amplifier	EB-3006198, Revision C	
1700/2700 with integral core processor and D600 sensor	EB-1005116, Revision B	
1700/2700 with integral core processor and DT sensor	EB-3600532 Rev D	

2.3.1 1700/2700 with integral core processor and CMF, F, T, D, or DL sensors

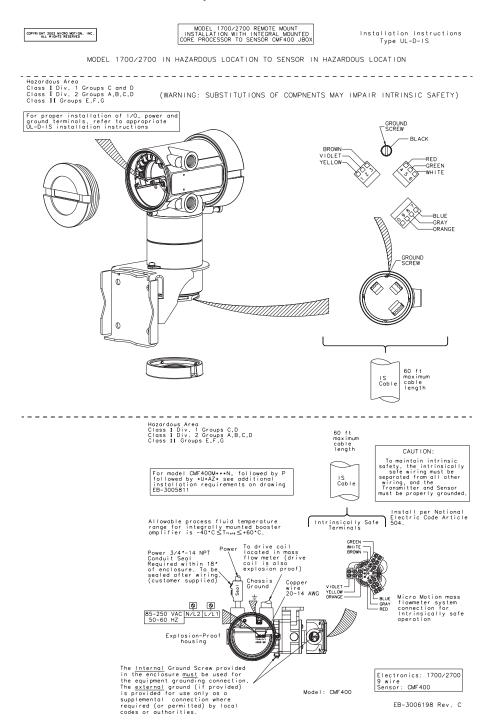
This drawing does not apply to the D600, DT, CMF300A, or CMF400 with booster amplifier sensors.



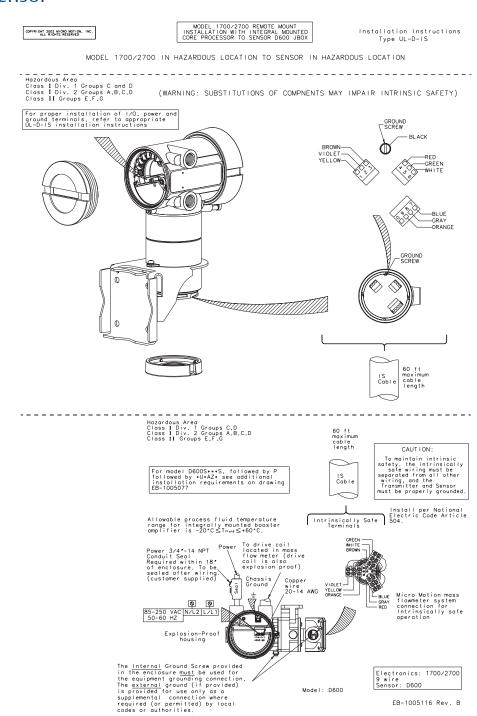
2.3.2 1700/2700 with integral core processor and CMF300A sensor



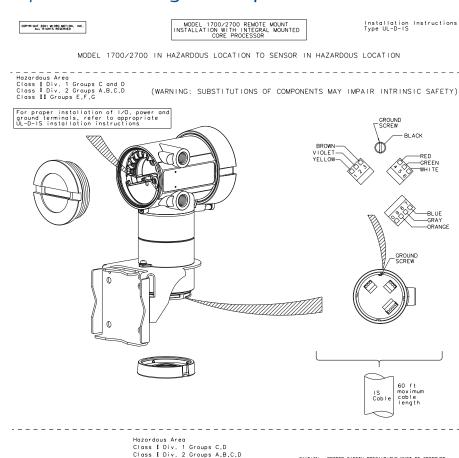
2.3.3 1700/2700 with integral core processor and CMF400 sensor with booster amplifier

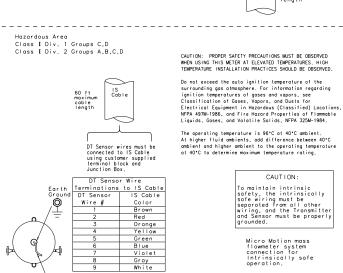


2.3.4 1700/2700 with integral core processor and D600 sensor



2.3.5 1700/2700 with integral core processor and DT sensor





DT65, DT100, DT150 Supplied as intrinsically safe. Electronics: 1700/2700

EB-3600532 Rev. D SHT 1 OF 1

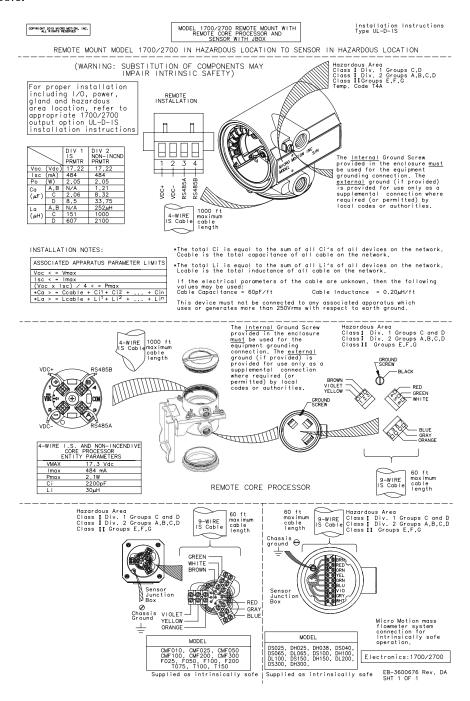
2.4 1700/2700 remote core processor installations

List of drawings

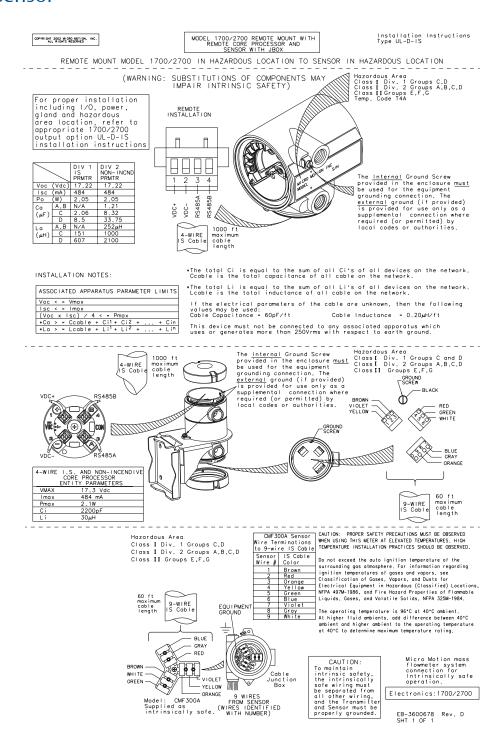
Installation	Drawing	
1700/2700 with remote core processor and CMF, F, T, D, or DL sensors	EB-3600676 Revision DA	
1700/2700 with remote core processor and CMF300A sensor	EB-3600678, Revision D	
1700/2700 with remote core processor and CMF400 sensor with booster amplifier	EB-3007060, Revision C	
1700/2700 with remote core processor and D600 sensor	EB-1005118, Revision B	
1700/2700 with remote core processor and DT sensor	EB-3600677, Revision C	

2.4.1 1700/2700 with remote core processor and CMF, F, T, D, or DL sensors

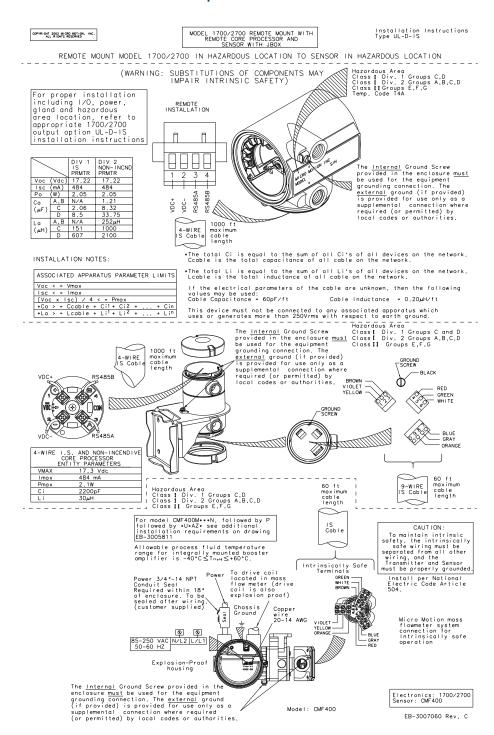
This drawing does not apply to the D600, DT, CMF300A, or CMF400 with booster amplifier sensors.



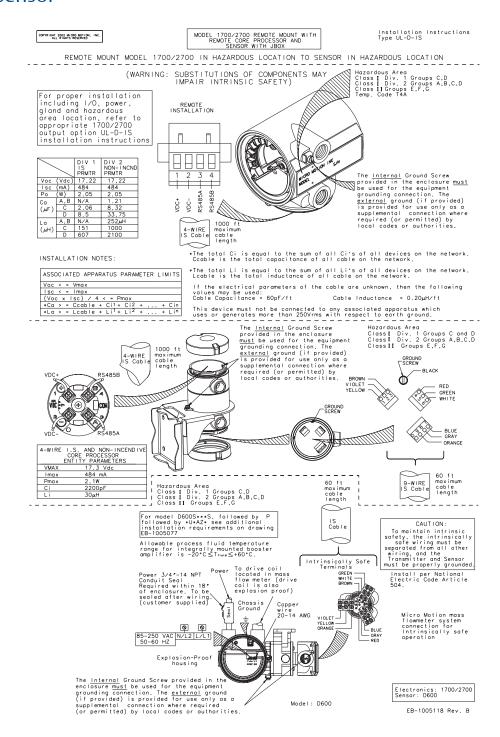
2.4.2 1700/2700 with remote core processor and CMF300A sensor



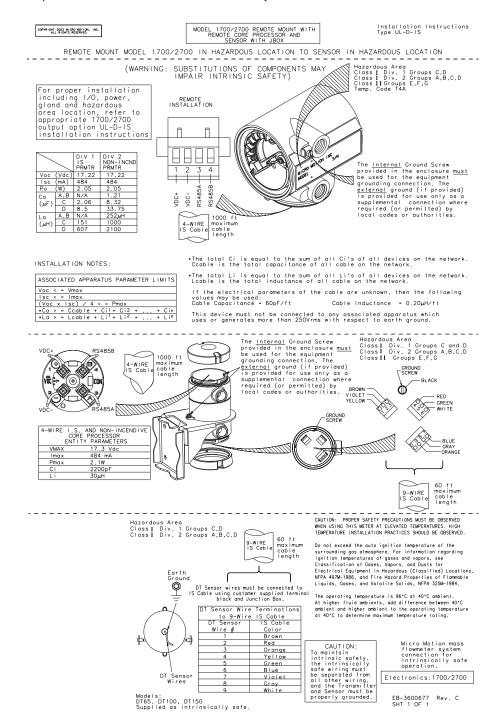
2.4.3 1700/2700 with remote core processor and CMF400 sensor with booster amplifier



2.4.4 1700/2700 with remote core processor and D600 sensor



2.4.5 1700/2700 with remote core processor and DT sensor



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3 3500 transmitters

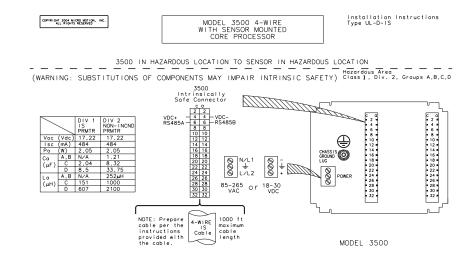
3.1 3500 4-wire installations

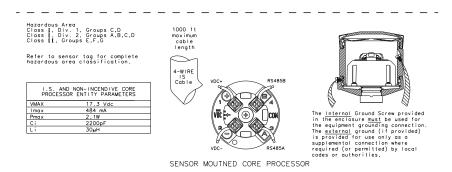
List of drawings

Installation	Drawing	
3500 4-wire with core processor and sensor	EB-20000249, Revision BA	
3500 4-wire with core processor and CMF400 sensor with booster amplifier	EB-20000243, Revision B	
3500 4-wire with core processor and D600 sensor	EB-20000246, Revision B	

3.1.1 3500 4-wire with core processor and sensor

This drawing does not apply to D600 sensors or CMF400 sensors with a booster amplifier.





INSTALLATION NOTES:

ASSOCIATED APPARATUS PARAMETER LIMITS
Voc < = Vmax
Isc < = Imax
(Voc x Isc) / 4 < = Pmax
*Ca > = Ccable + Ci1 + Ci2 + + Cin
*La > = Lcable + Li ¹ + Li ² + + Li ⁿ

*The total Ci is equal to the sum of all Ci's of all devices on the network. Ccable is the total capacitance of all cable on the network.

*The total Li is equal to the sum of all Li's of all devices on the network. Lcable is the total inductance of all cable on the network,

If the electrical parameters of the cable are unknown, then the following values may be used Cable Capacitance = 60pF/ft Cable Inductance = 0.20uH/ft

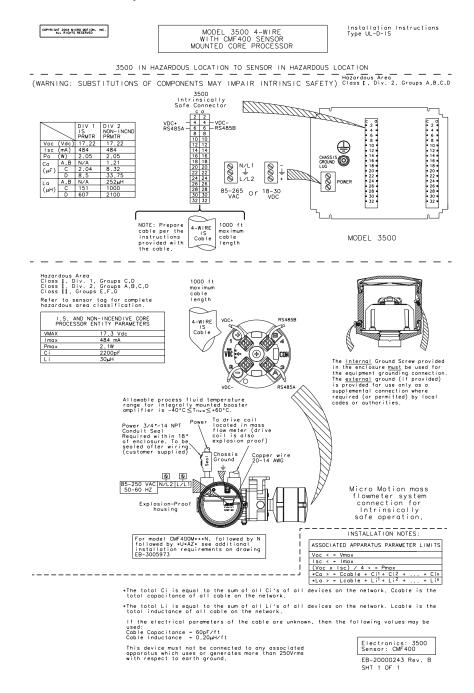
This device must not be connected to any associated apparatus which uses or generates more than 250Vrms with respect to earth ground.

Micro Motion mass flowmeter system connection for Intrinsically safe operation.

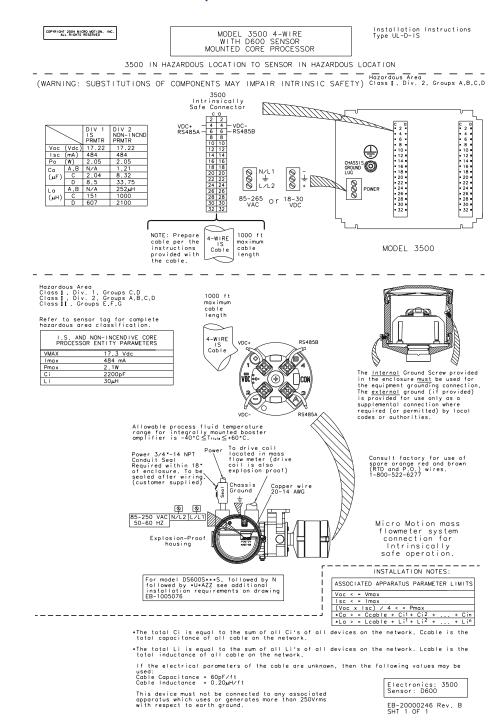
Electronics: 3500

EB-20000249 Rev. B SHT 1 OF 1

3.1.2 3500 4-wire with core processor and CMF400 sensor with booster amplifier



3.1.3 3500 4-wire with core processor and D600 sensor



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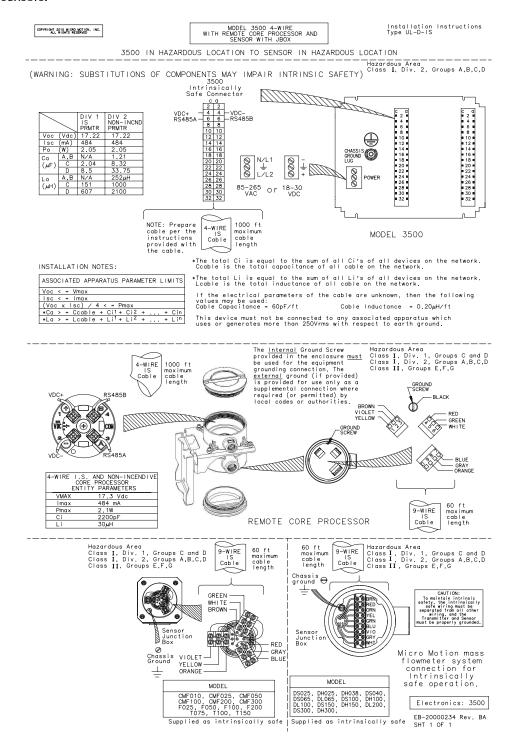
3.2 3500 remote core processor installations

List of drawings

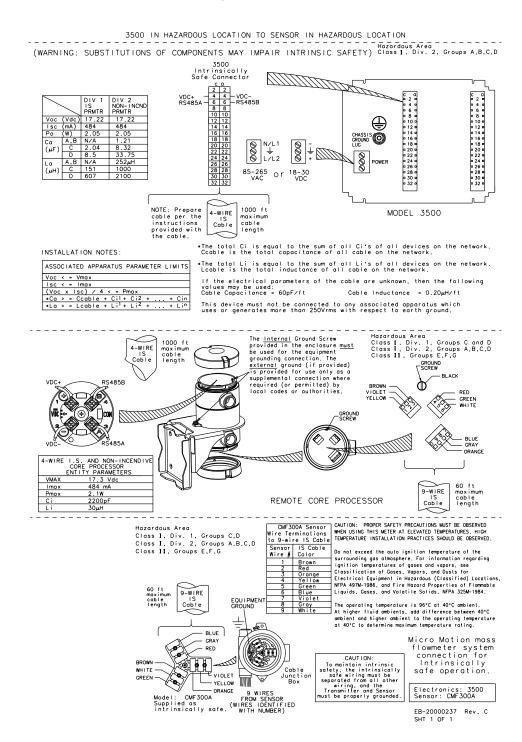
Installation	Drawing	
3500 with remote core processor and CMF, D, DL, F, or T sensors	EB-20000234, Revision BA	
3500 with remote core processor and CMF300A sensor	EB-20000237, Revision C	
3500 with remote core processor and CMF400 sensor with booster amplifier	EB-20000228, Revision B	
3500 with remote core processor and D600 sensor	EB-20000231, Revision B	
3500 with remote core processor and DT sensor	EB-20000240, Revision B	

3.2.1 3500 with remote core processor and CMF, D, DL, F, or T sensors

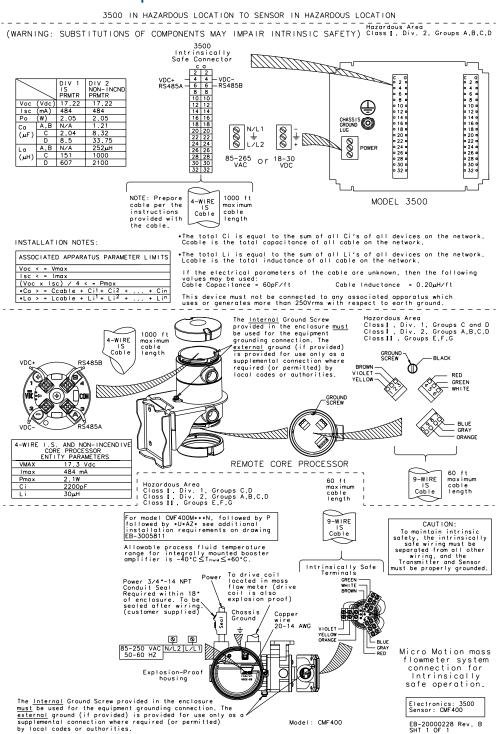
This drawing does not apply to the D600, DT, CMF300A, or CMF400 with booster amplifier sensors.



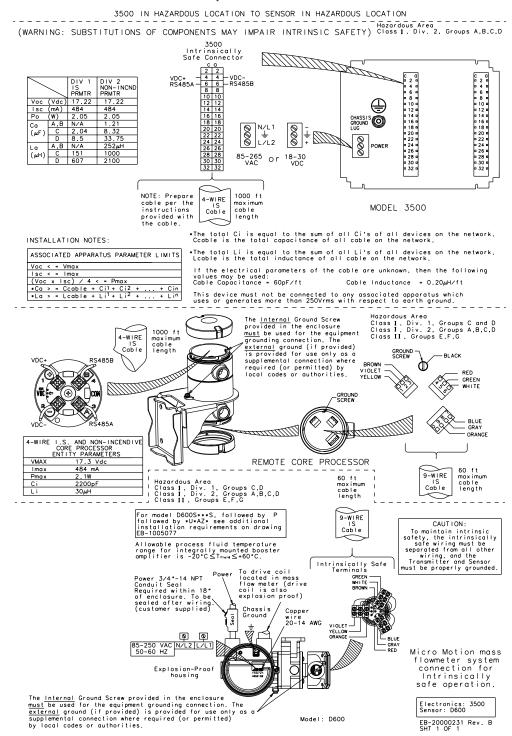
3.2.2 3500 with remote core processor and CMF300A sensor



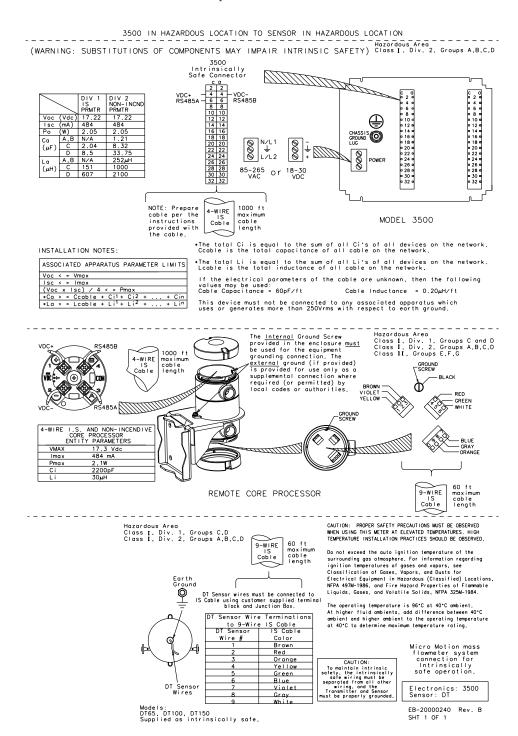
3.2.3 3500 with remote core processor and CMF400 sensor with booster amplifier



3.2.4 3500 with remote core processor and D600 sensor



3.2.5 3500 with remote core processor and DT sensor



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4 3700 transmitters

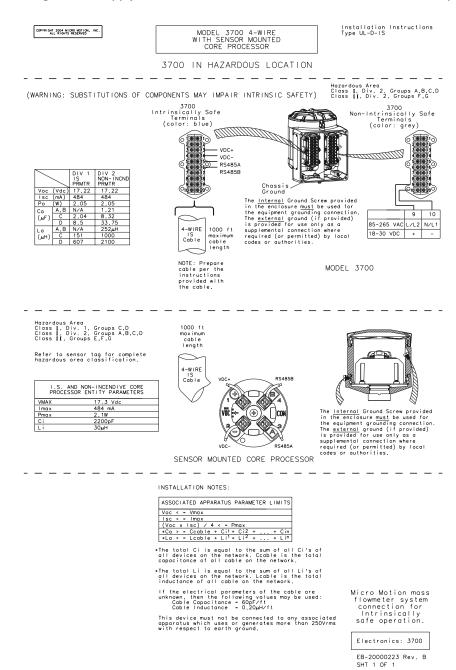
4.1 3700 4-wire installations

List of drawings

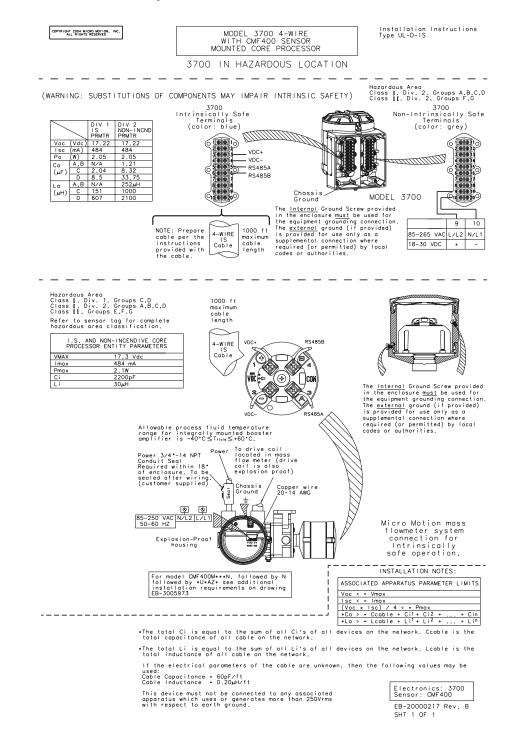
Installation	Drawing
3700 4-wire with core processor and sensor	EB-20000223 Rev BA
3700 4-wire with core processor and CMF400 sensor with booster amplifier	EB-20000217, Revision B
3700 4-wire with core processor and CMF, F, H, R, CNF, or T sensors	EB-20000208, Revision BA
3700 4-wire with core processor and D600 sensor	EB-20000220, Revision B

4.1.1 3700 4-wire with core processor and sensor

This drawing does not apply to D600 sensors or CMF400 sensors with a booster amplifier.

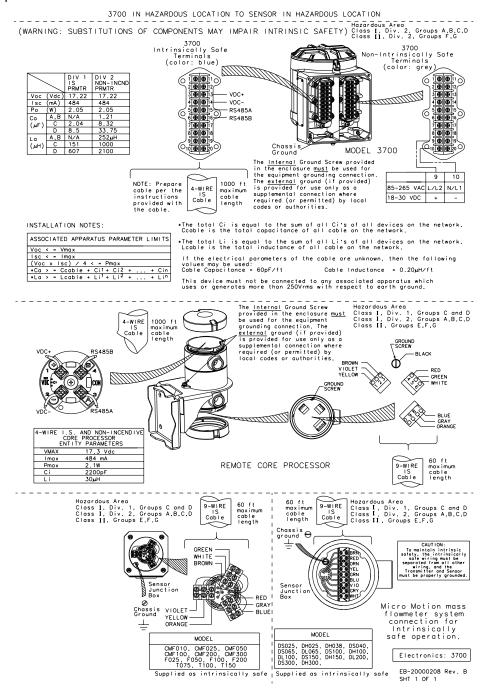


4.1.2 3700 4-wire with core processor and CMF400 sensor with booster amplifier

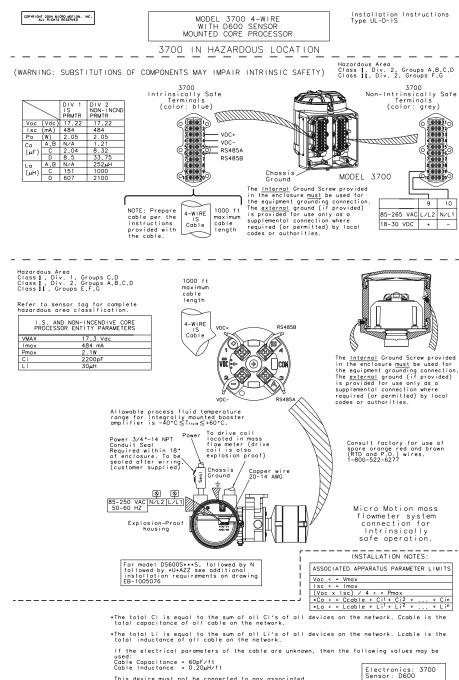


4.1.3 3700 4-wire with core processor and CMF, F, H, R, CNF, or T sensors

This drawing does not apply to the CMF300A sensor or to the CMF400 sensor with booster amplifier.



4.1.4 3700 4-wire with core processor and D600 sensor



This device must not be connected to any associated apparatus which uses or generates more than 250Vrms with respect to earth ground.

EB-20000220 Rev. B

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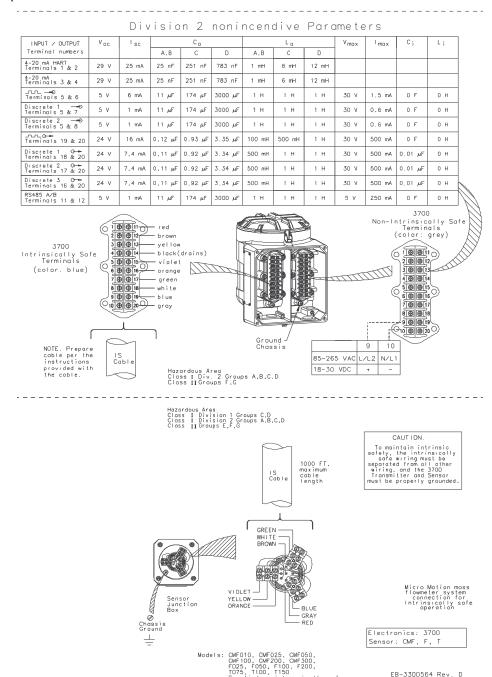
4.2 3700 core processor installations

List of drawings

Installation	Drawing				
3700 with core processor and CMF, F, or T sensors	EB-3300564, Revision D				
3700 with core processor and CMF300A sensor	EB-3002935, Revision F				
3700 with core processor and CMF400 sensor with booster amplifier	EB-3005808, Revision C				

4.2.1 3700 with core processor and CMF, F, or T sensors

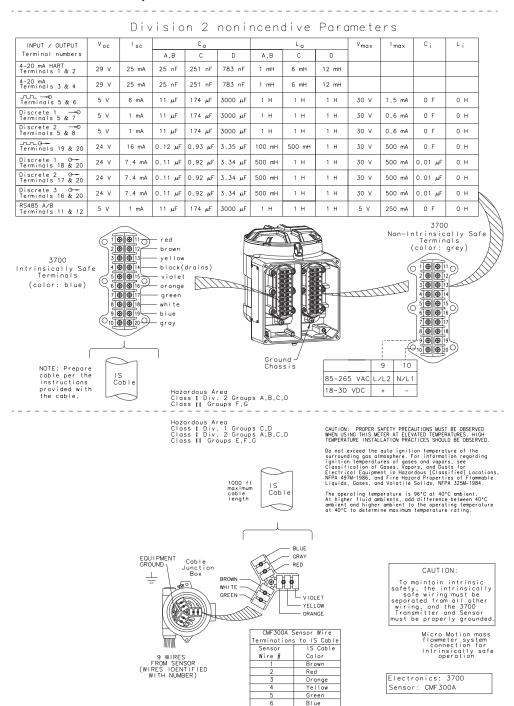
This drawing does not apply to the CMF300A sensor or to the CMF400 sensor with booster amplifier.



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4.2.2 3700 with core processor and CMF300A sensor



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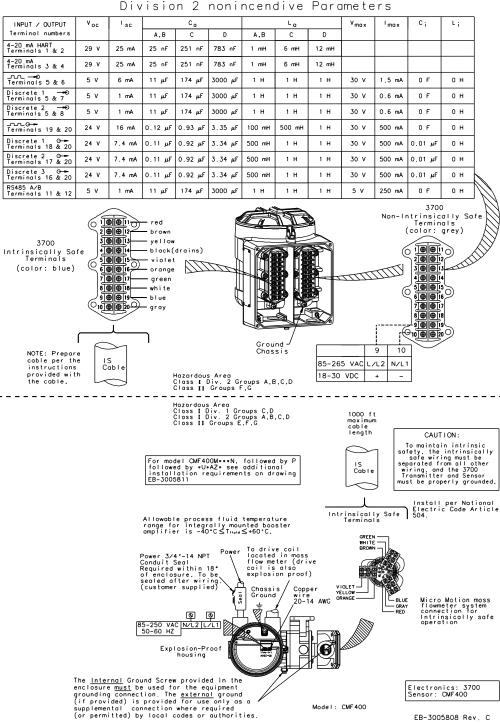
Model: CMF300A Supplied as intrinsically safe.

Violet

EB-3002935 Rev. F

4.2.3 3700 with core processor and CMF400 sensor with booster amplifier

Division 2 nonincendive Parameters



Model: CMF400

EB-3005808 Rev. C

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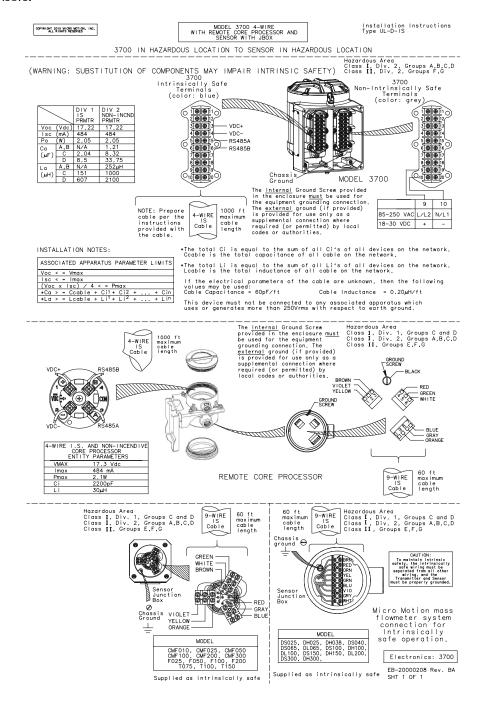
4.3 3700 remote core processor installations

List of drawings

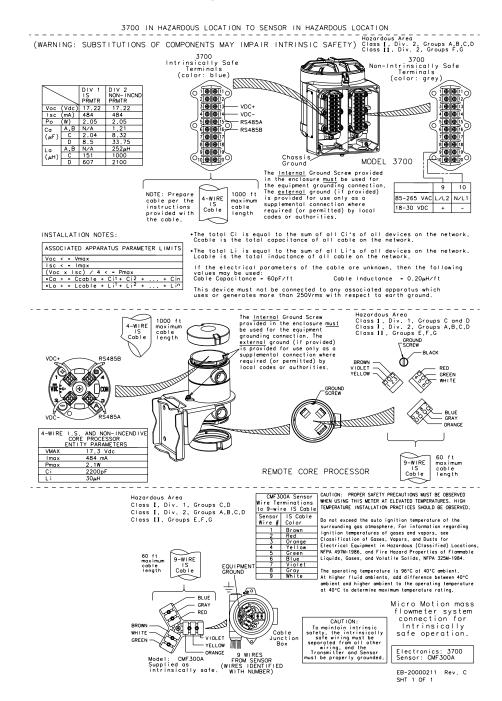
Installation	Drawing
3700 with remote core processor and CMF, D, DL, F, H, or T sensors	EB-20000208, Revision BA
3700 with remote core processor and CMF300A sensor	EB-20000211, Revision C
3700 with remote core processor and CMF400 sensor with booster amplifier	EB-20000202, Revision B
3700 with remote core processor and D600 sensor	EB-20000205, Revision B
3700 with remote core processor and DT sensor	EB-20000214, Revision B

4.3.1 3700 with remote core processor and CMF, D, DL, F, H, or T sensors

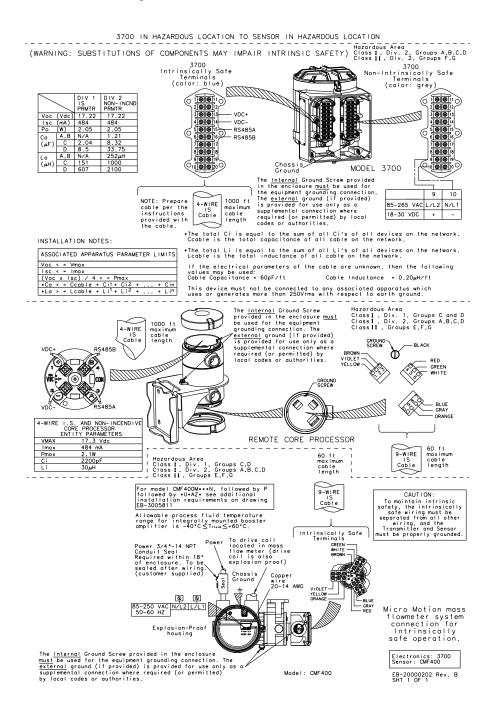
This drawing does not apply to the D600, DT, CMF300A, or CMF400 with booster amplifier sensors.



4.3.2 3700 with remote core processor and CMF300A sensor

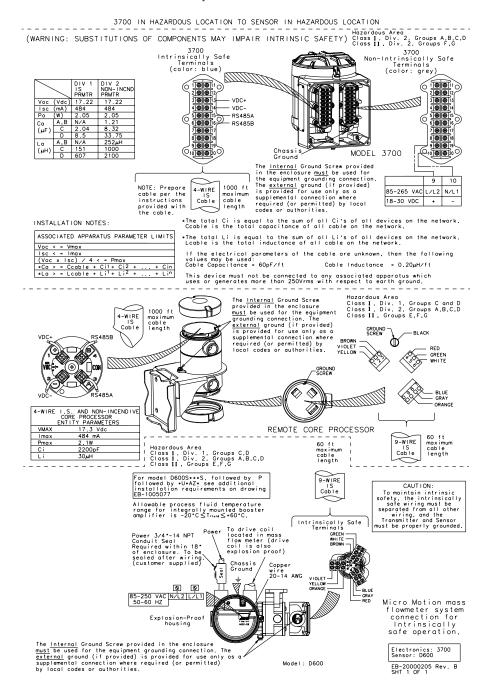


4.3.3 3700 with remote core processor and CMF400 sensor with booster amplifier

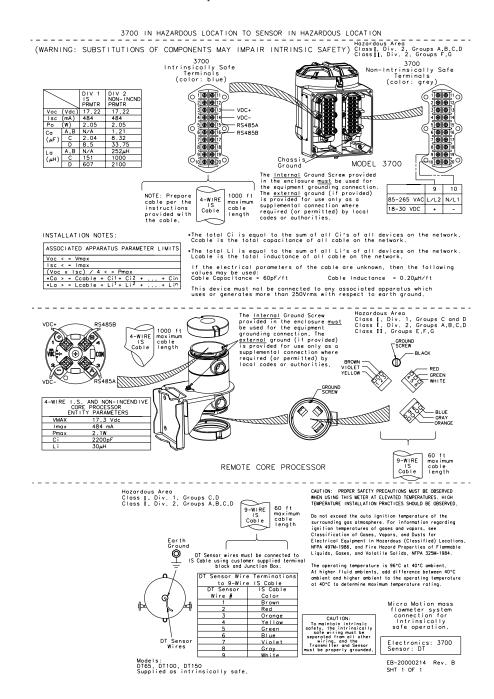


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4.3.4 3700 with remote core processor and D600 sensor



4.3.5 3700 with remote core processor and DT sensor



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5 Booster amplifiers

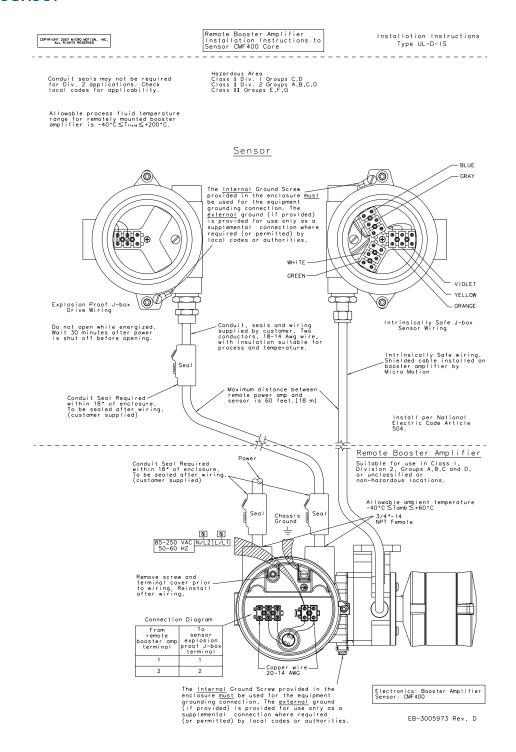
5.1 Booster amplifiers with CMF400 sensors

List of drawings

Installation	Drawing			
Booster amplifier with core processor and CMF400 sensor	EB-3005973, Revision D			
Booster amplifier with junction box and CMF400 sensor	EB-3005811, Revision D			

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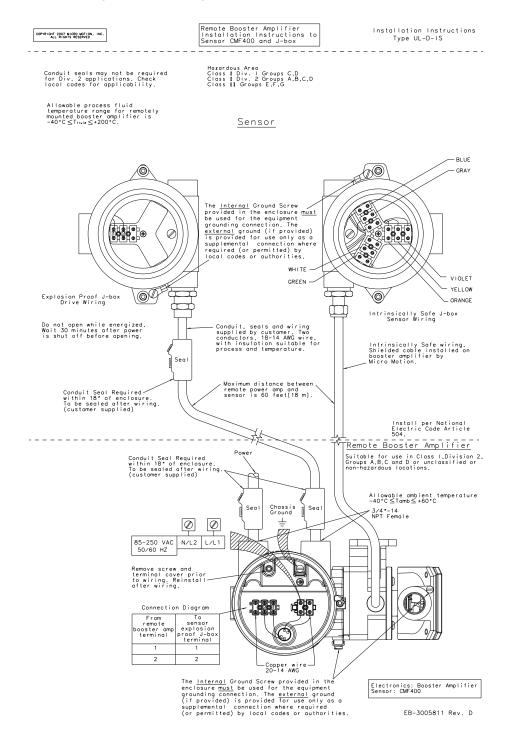
5.1.1 Booster amplifier with core processor and CMF400 sensor



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5.1.2 Booster amplifier with junction box and CMF400 sensor



Booster amplifiersInstallation ManualNovember 201920001964

5.2 Booster amplifiers with D600 sensors

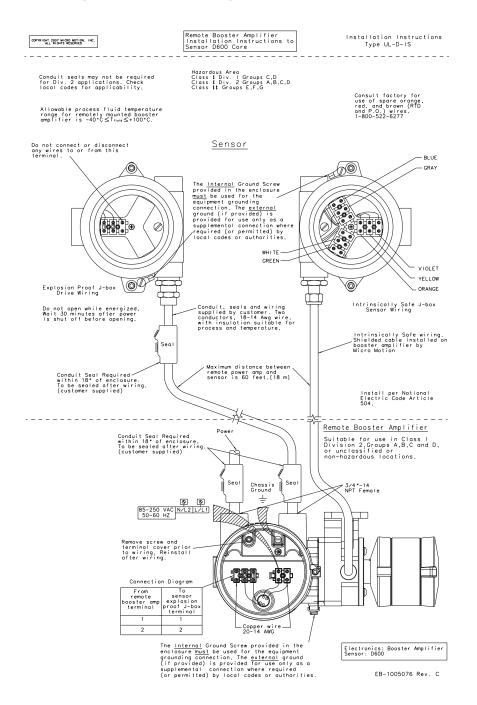
List of drawings

Installation	Drawing			
Booster amplifier with core processor and D600 sensor	EB-1005076, Revision C			
Booster amplifier with junction box and D600 sensor	EB-1005077, Revision C			

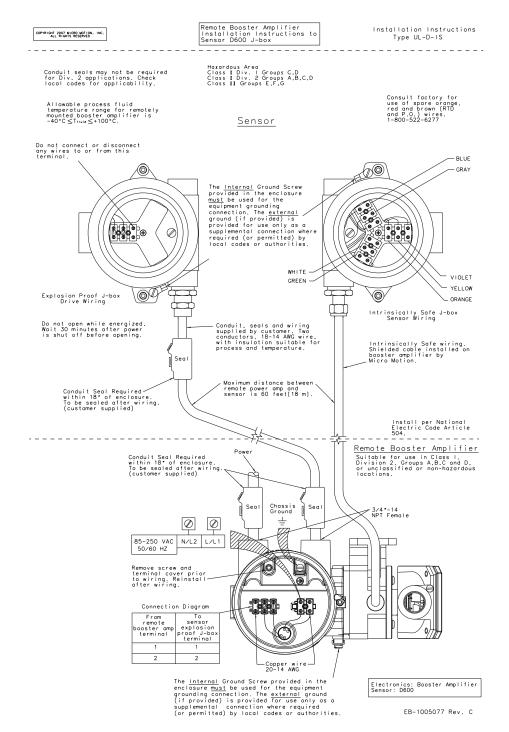
Installation Manual Booster amplifiers

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5.2.1 Booster amplifier with core processor and D600 sensor

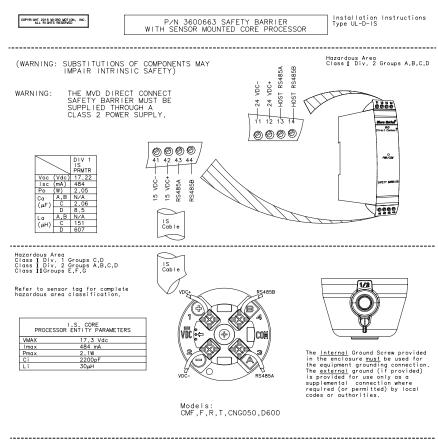


5.2.2 Booster amplifier with junction box and D600 sensor



6 Direct host 4-wire

Core processor to direct host through a safety barrier



INSTALLATION NOTES:

ASSC	CIA	TED	APP	٩R	ATUS	PARA	AME.	TER	LIN	/ITS
Voc										
	< =									
	(Voc x Isc) / 4 < = Pmax									
*Ca	> =	Cc	ble	+	Ci1	+ Cia	2 +		. +	Cin
*La	> =	Lo	ble.	+	Li1.	+ Li²	2 +		. +	Lin

- *The total Ci is equal to the sum of all Ci's of all devices on the network. Ccable is the total capacitance of all cable on the network.
- *The total Li is equal to the sum of all Li's of all devices on the network. Lcable is the total inductance of all cable on the network.

If the electrical parameters of the cable are unknown, then the following values may be used: Cable Capacitance = 60pF/ft Cable Inductance = $0.20\mu J/ft$

This device must not be connected to any associated apparatus which uses or generates more than 250Vrms with respect to earth ground.

Depending on the location it is used, the barrier shall be installed in another enclosure suitable for the application.

Micro Motion mass flowmeter system connection for Intrinsically safe operation

Electronics: SAFETY BARRIER

EB-3600798 Rev. EA



0001964 Rev. BC 2019

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