



1 **EU-TYPE EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **Sira 19ATEX3009X** Issue: **2**

4 Equipment: **Field Mount Loop Power Transmitter, 4200 Series & 4700 Series**

5 Applicant: **Micro Motion**

6 Address: **7070 Winchester Circle
Boulder
Colorado 80301
USA**

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 CSA Group Netherlands B.V., notified body number 2813 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN IEC 60079-0:2018 EN 60079-7:2015/A1:2018 EN 60079-11:2012 EN 60079-31: 2014

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 Refer to the Schedule:

Signed: M Halliwell

Title: Director of Operations



Project Number 80158794

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13 DESCRIPTION OF EQUIPMENT

The model designation and marking are as follows:

ATEX Model Code	Marking	
4200 Series		
4200abcdeVAghijlmnn	II 3 (1) G or II 3 (1) D	Ex ec [ia Ga] IIC T5 Gc Ex tc [ia Da] IIIC T72°C Dc IP66/IP67 Ta (AL): -52°C to 65°C Ta (SST): -60°C to 60°C
4700 Series		
4700abcdeVAghijlmnn	II 3 (1) G or II 3 (1) D	Ex ec [ia Ga] IIC T5 Gc Ex tc [ia Da] IIIC T72°C Dc IP66/IP67 Ta (AL): -52°C to 65°C Ta (SST): -60°C to 60°C

Model Code Nomenclature applicable for both, 4200 and 4700 Series:

4(2,7)00 a b c d e f f g h i j l m n n

Mounting (a)

- I = Integral Mount AL
- J = Integral Mount SST
- R = 4-wire remote mount transmitter AL
- M = 4-wire remote mount transmitter SST
- C = 9-wire remote mount transmitter AL
- P = 9-wire remote mount transmitter SST
- S = Integral Mount AL for retrofit

Power (b)

- 1 = 18 to 100 VDC and 85 to 265 VAC; self-switching

Display Options (c)

- 2 = Backlit dual line Display
- 3 = No Display
- 5 = Backlit dual line Display = Ex *** IIC T6 Gb
- V = Backlit dual Line Display w/ WiFi

Output Options (d)

- A = Configurable Outputs
- C = Ethernet Outputs
- D = IS I/O
- E = IS Foundation Fieldbus H1
- N = Non-IS Foundation Fieldbus H1

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Conduit Connections (e)

(B, C, D) = 1/2" NPT

(E, F, G) = M20

Approval (ff)

VA = ATEX: II 3G, Ex ec, Zone 2 and II 3D Ex tc Zone 22

General:

The 4200/4700 Series transmitter consists of both aluminum and stainless-steel versions of both the 4200 and 4700 transmitters, utilizing the 4200 and 4700 housings.

The 4200/4700 Series Transmitter Housing is designed to cater to two mounting versions. These mounting versions are Remote (from the Sensor) and Integral (on top of the Sensor).

The 4200/ 4700 Series Transmitter Housing consists of a two-compartment housing, classified as Terminal compartment (Ex-db, Ex-eb) and Electronic Compartment (Ex-db, Ex-ia). This compartmentalization is achieved by an enclosure wall section (Aluminum – cemented seal, SST – PTFE bushing).

The Terminal Compartment (Ex-eb, Ex-db) contains the terminals and is accessible by removing a lockout device and a threaded cover. This cover can only be a blind cover. The I/O terminals in this compartment could have either I.S. or non-I.S. I/O's, depending on the electronics option chosen. The Terminal Blocks used in this compartment are black in color and are Ex rated.

The Electronic compartment (Ex-db, Ex-ia) contains the main electronic circuits and is accessible by removing a lockout device and a threaded cover. This cover can be a blind cover or one with a window for a display.

For the integral mounting version, the 4200/4700 Series Transmitter Housing is directly fitted on the sensor using a feedthrough. Alternatively, the housing can be mounted to an adapter.

For the Remote mounting version, a Junction Box attaches to the 4200/4700 Series Transmitter Housing. This Junction Box is used to terminate wire from Sensor/core processor and feed it further into the 4200/4700 Series Transmitter Housing.

Part A: 4200 Series

The 4200 incorporates an on-board intrinsically safe (IS) shunt zener diode safety assembly, which is encapsulated. The IS shunt zener diode safety assembly then feeds the remaining electronics which are also encapsulated but protected by intrinsic safety.

The field wired connections are made inside the terminal compartment, which is protected by either Increased Safety (Ex eb, ec), Flameproof (Ex d), Intrinsic safety (Ex ia) or by enclosure (Ex t) for dust.

The electronics compartment is protected by Flameproof (Ex d), intrinsic safety (Ex ia), Increased Safety (Ex ec) or by enclosure (Ex t) for dust.

The terminal compartment, accessible via the threaded enclosure cover, allows electrical connection via two cable/conduit entries to a terminal block. Electrical connection to the remainder of the equipment is then made through the terminal PC Board.

The electronics housing contains three PC Boards, the Power PCB, 2WCORE PCB, and Display PCB. All of the circuitry, except for the Display PCB, is encapsulated.

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The 4200 Series transmitters are assessed for (a) Intrinsic Safety "ia", (b) Flameproof "db", (c) Dust Ignition protected "tb" and (d) Increased Safety type "eb" or "ec" protection methods.

Intrinsic Safety and Dust-Ignition Protected (Ex ia IIC and Ex ia IIIC)	Flameproof or Increased Safety (Zone 1) and Dust-Ignition Protected (Ex db IIC and Ex tb IIIC) Or (Ex eb IIC and Ex tb IIIC)	Increased Safety (Zone 2) and Dust-Ignition Protected (Ex ec IIC and Ex tc IIIC)
$U_i = 30 \text{ Vdc}$ $I_i = 300 \text{ mA}$, $P_i = 1000 \text{ mW}$, $C_i = 1320\text{pF}$, $L_i = 2.86 \mu\text{H}$	$18 \text{ to } 30 \text{ Vdc}$, $4 \text{ to } 20\text{mA}$ 22mA Max.	$18 \text{ to } 30 \text{ Vdc}$, $4 \text{ to } 20\text{mA}$ 22mA Max.

Input Entity Parameters (Intrinsically Safe Zone 0/1/2):

Parameters	Series 4200	
	gas application	dust application
Terminals	CH A, CH B, Terminals 1 -4	CH A, CH B, Terminals 1 -4
Voltage U_i	DC 30 V	DC 30 V
Current I_i	300mA	300mA
Power P_i	1.0W	1.0W
Effective internal capacitance C_i	1320pF	1320pF
Effective internal inductance L_i	2.86uH	2.86uH

Output Entity Parameters, Group IIC (Zone 0/1/2):

Parameters	Series 4200
	gas application
Terminals	Drive +, Drive - Drive Circuit (J2 in J-box, DR+ BRN; DR- RED)
U_o	6.51VDC
I_o	1.52A Instantaneous 0.136A Steady State
P_o	0.81W
C_o	22 μF
U_o/I_o	4.28 Ω
L_o	15.4 μH
L_o/R_o	14.4 $\mu\text{H}/\Omega$

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Output Entity Parameters, Group IIB/Group IIIC (Zone 0/1/2)

Parameters	Series 4200	
	gas application(Group IIB)	dust application(Group IIIC)
Terminals	Drive +, Drive – Drive Circuit (J2 in J-box, DR+ BRN; DR- RED)	Drive +, Drive – Drive Circuit (J2 in J-box, DR+ BRN; DR- RED)
U _o	6.51VDC	6.51VDC
I _o	1.52A Instantaneous 0.136A Steady State	1.52A Instantaneous 0.136A Steady State
P _o	0.81W	0.81W
C _o	500µF	500µF
U _o /I _o	4.28Ω	4.28Ω
L _o	61.6µH	61.6µH
L _o /R _o	57.5µH/Ω	57.5µH/Ω

The maximum external inductance L (sensor coil) can be calculated with the following term:

$$L = 2 \times E \times \left(\frac{(U_o / I_{oinst}) + R_o}{1.5 \times U_o} \right)^2$$

whereby E = 40 µJ for group IIC and E = 160 µJ for group IIB & IIIC will be inserted.

Output Entity Parameters, Group IIC (Zone 0/1/2)

Parameters	Series 4200	
	gas application	
Terminals	Pick Off's (RPO-), (RPO+), (LPO-), (LPO+) Pick Off Circuit (J1 in J-box, LPO+ GRN; LPO- WHT; RPO+ BLU; RPO- GRY)	
U _o	6.51VDC	
I _o	2.63mA	
P _o	4.3mW	
C _o	22µF	
L _o	5.1H	
L _o /R _o	8.3mH/Ω	

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Output Entity Parameters, Group IIB/Group IIIC (Zone 0/1/2)

Parameters	Series 4200	
	gas application(Group IIB)	dust application(Group IIIC)
Terminals	Pick Off's (RPO-), (RPO+), (LPO-), (LPO+) Pick Off Circuit (J1 in J-box, LPO+ GRN; LPO- WHT; RPO+ BLU; RPO- GRY)	Pick Off's (RPO-), (RPO+), (LPO-), (LPO+) Pick Off Circuit (J1 in J-box, LPO+ GRN; LPO- WHT; RPO+ BLU; RPO- GRY)
U _o	6.51V	6.51V
I _o	2.63mA	2.63mA
P _o	4.3mW	4.3mW
C _o	500µF	500µF
L _o	20.5H	20.5H
L _o /R _o	33.2mH/Ω	33.2mH/Ω

Output Entity Parameters, Group IIC (Zone 0/1/2):

Parameters	Series 4200	
	gas application	
Terminals	J6 Pins 1(RTD_SNS),2(RTD_LO),9(RTD_HI) Temp Circuit (J1 in J-box, RTD+ VIO; RTD- ORA; RTD-SIG YEL)	
U _o	6.51V	
I _o	12.3mA	
P _o	20mW	
C _o	22µF	
L _o	235mH	
L _o /R _o	1.78mH/Ω	

Output Entity Parameters, Group IIB/Group IIIC (Zone 0/1/2)

Parameters	Series 4200	
	gas application(Group IIB)	dust application(Group IIIC)
Terminals	J6 Pins 1(RTD_SNS),2(RTD_LO),9(RTD_HI) Temp Circuit (J1 in J-box, RTD+ VIO; RTD- ORA; RTD-SIG YEL)	J6 Pins 1(RTD_SNS),2(RTD_LO),9(RTD_HI) Temp Circuit (J1 in J-box, RTD+ VIO; RTD- ORA; RTD-SIG YEL)
U _o	6.51V	6.51V
I _o	12.3mA	12.3mA
P _o	20mW	20mW
C _o	500µF	500µF
L _o	940mH	940mH
L _o /R _o	7.1mH/Ω	7.1mH/Ω

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Part B: 4700 Series

The 4700 Series transmitter, using the HART communication protocol, gives easy access to information critical to measuring flow rates. Information from the measured flow rate, the instrument, or the sensor can be obtained downstream via HART communications.

The 4700 Series transmitter can be configured, calibrated, or tested with FACTORY USE ONLY clip lead connections in the terminal compartment.

Type	Associated Apparatus	
Supply Voltage Range	18V to 100V DC, 85V _{rms} to 250V _{rms} AC (auto-ranging supply)	
Um	240V _{rms} , 375V pk	
Classification	Model 4700abcdeffghijlmnn Zone 1 (Exd)	II 2 G Ex db [ia Ga IIC] IIB+H ₂ T6 Gb II 2 G Ex db [ia Ga] IIC T6 Gb II 2 D Ex tb [ia Da] IIIC T80°C Db IP66/IP67
	Model 4700abcdeffghijlmnn Zone 1 (Exde)	II 2 G Ex db eb [ia Ga IIC] IIB+H ₂ T6 Gb II 2 G Ex db eb [ia Ga] IIC T6 Gb II 2 D Ex tb [ia Da] IIIC T80°C Db IP66/IP67
	Model 4700abcdeffghijlmnn Zone 2	II 3 G Ex ec nC [ia Ga] IIC T5 Gc II 3 D Ex tc [ia Da] IIIC T80°C Dc IP66/IP67
	Model 4700abcdeffghijlmnn North America	Explosion Proof with I.S. output to sensor for Class I, Div 1, Groups C, D Non-Incendive for Class I, Div 2, Groups A, B, C, D Dust ignition Proof for Class II, Div. 1, Groups E, F, G
Ambient Temperature Rating	ALUMINUM (ALL MODELS): -52°C Ta 65°C 4700 STAINLESS-STEEL: -60°C Ta 60°C	
Max Internal Ambient Temperature Rise	20°C	
Housing Temperature Rise	7°C	
Connection Facilities	Integral	Power: 2 (Exe rated terminals) I/O: 6 (Exe rated terminals)
	4-Wire Remote	Power: 2 (Exe rated terminals) I/O: 6 (Exe rated terminals) Sensor: 4 (Exi)
	9-Wire Remote	Power: 2 (Exe rated terminals) I/O: 6 (Exe rated terminals) Sensor: 9 (Exi)

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Type	Associated Apparatus	
Entity Parameters	9-Wire circuit	<ul style="list-style-type: none"> ○ Drive Circuit <ul style="list-style-type: none"> § Uo = 10.5V § Rs = 9.9 Ω § Lo/Ro = 12.77 μH / Ω ○ Pick-Off Circuit <ul style="list-style-type: none"> § Uo = 21 V § Rs = 9990 Ω § Lo/Ro = 3.22 mH / Ω ○ RTD Circuit <ul style="list-style-type: none"> § Uo = 21 V § Rs = 3630 Ω § Lo/Ro = 1.17 mH / Ω
	4-Wire Circuit	<ul style="list-style-type: none"> • Uo = 17.2 V • Ro = 35.91 Ω • Lo/Ro = 17.26 μH / Ω
PC Board Tracking Index	175 Minimum	

The 4700 Series Transmitter employs a PCA connector which connects the Electronics located in the Electronics compartment to the user interface terminals in the Terminal compartment. It consists of two sections of rigid PCB connected by a flexible section. The flexible section is an integral part of, and serves as the inner layers of, both rigid sections. One of the rigid sections passes through an aperture between the two housing compartments.

Variation 1 - This variation introduced the following changes:

- i. Reissuing of Sira 19ATEX3009 as an EU Type examination certificate; due to the Category 1 IS outputs [Ex ia] which are required to be called out in an EU Type examination certificate.
- ii. Addition of "X" to the certificate number Sira 19ATEX3009X; for the applicable Conditions of Use.
- iii. Products Description updated to include the model code description.
- iv. Markings updated for all 4200 Models. The Ta = -40°C to +65°C has been changes as Ta (AL): -52°C to 65°C/ Ta (SST): -60°C to 60°C.
- v. Introduction of 4700 series; product description was updated accordingly.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	29 April 2019	R70183768A	The release of the prime certificate.
1	31 October 2019	4167	Transfer of certificate Sira 19ATEX3009 from Sira Certification Service to CSA Group Netherlands B.V.

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Issue	Date	Report number	Comment
2	30 August 2023	R80158792A	This Issue covers the following changes: <ul style="list-style-type: none">The certificate Issue date for Issue 1 was amended to correct a typographical error.The introduction of Variation 1.

15 SPECIFIC CONDITIONS OF USE (denoted by X after the certificate number)

15.1 If a charge-generating mechanism is present, the exposed painted metallic part on the enclosure is capable of storing a level of electrostatic charge that could become incendive for IIIC dust. Therefore, the user/installer shall implement precautions to prevent the build-up of electrostatic charge, e.g., earthing the metallic part. This is particularly important if the equipment is installed in a zone 0 location. Cleaning of the painted surface shall only be done with a damp cloth.

15.2 The enclosure is manufactured from Aluminium, magnesium, titanium or zirconium may be used at the accessible surface of the equipment. In rare cases, ignition sources due to impact and friction sparks could occur. This shall be considered when the Micro Motion Field Mount Loop Power Transmitter is being installed in Zone 0 locations for group II/III level of protection Ga/Da.

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

17 CONDITIONS OF MANUFACTURE

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of CSA Group Netherlands B.V. certificates.

17.2 Holders of EU-Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.

17.3 In accordance with EN 60079-7:2015/A1:2018 clause 7.1, each manufactured sample of the equipment shall be subjected to an electric strength test using a test voltage of 500 Vac applied between all input terminals and sensor output terminals for 60 seconds. Alternatively, a voltage of 20% higher may be applied for 1s. There shall be no evidence of flashover or breakdown and the maximum current flowing shall not exceed 5 mA.

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Certificate Annexe



Certificate Number: Sira 19ATEX3009X

Equipment: Field Mount Loop Power Transmitter, 4200 Series & 4700 Series

Applicant: Micro Motion

Issue 0

Drawing no.	Sheets	Rev.	Date (Sira stamp)	Title
EB-20055319	1 to 4	AA	26 Mar 19	SPEC, APPVL TAG 4200 XMTR ATEX Zn 2
EB-20055658	1 to 9	AA	26 Mar 19	ATEX Installation Instructions(Zone 2)
EB-20002371	1 of 1	BC	19 Feb 19	APPROVAL, SPLINED FEEDTHROUGH
MMI-20045788	1 of 1	AD	19 Feb 19	PCB, 4200, POWER – LAYER STACK
EB-20048326	1 to 11	AA	19 Feb 19	SPEC SAFETY DESC 4200 FLAME PROOF & INCREASED SAFETY
EB-20048833	1 of 10	AA	20 Mar 19	TRANSMITTER, HOUSING 4200
EB-20048834	1 of 2	AA	19 Feb 19	DISPLAY/BLIND COVER 4200
EB-20048835	1 of 1	AA	19 Feb 19	ASSY, DISPLAY COVER 4200
EB-20048839	1 of 1	AA	19 Feb 19	TERMINAL COVER, 4200
EB-20049361	1 to 4	AA	22 Mar 19	ASSY, HOUSING, 4200
EB-20049364	1 of 4	AA	19 Feb 19	APPVL, ASSY, MODULE, 4200
EB-20049365	1 to 4	AB	19 Feb 19	APPVL,SCHEM,4200,POWER
EB-20049366	1 to 4	AB	19 Feb 19	APPVL, PCA, 4200 POWER
EB-20049367	1 to 6	AB	19 Feb 19	APPVL,EBOM, 4200 Power
EB-20049368	1 to 8	AB	19 Feb 19	APPVL,SCHEM,4200,2WCORE
EB-20049369	1 to 4	AB	19 Feb 19	APPVL, PCA, 4200 2WCORE
EB-20049370	1 to 4	AB	19 Feb 19	APPVL, EBOM,4200,2WCORE
EB-20049371	1 of 1	AA	19 Feb 19	APPVL,SCHEM,FLEX,4200 MODULE
EB-20049373	1 to 3	AA	19 Feb 19	APPVL, ASSY, DISPLAY, 4200
EB-20049374	1 of 1	AA	19 Feb 19	APPVL,SCHEM,FLEX,4200 DISPLAY
EB-20049376	1 to 2	AA	19 Feb 19	APPVL,SCHEM,4200,DISPLAY BUTTONS
EB-20049378	1 to 2	AB	19 Feb 19	APPVL,SCHEM,4200,DISPLAY,CONTROLLER
EB-20049379	1 to 3	AB	19 Feb 19	APPVL,PCA,4200,DISPLAY,CONTROLLER
EB-20049380	1 to 2	AB	19 Feb 19	APPVL,EBOM,4200,DISPLAY,CONTROLLER
EB-20049381	1 of 1	AA	19 Feb 19	APPVL,ASSY,TERMINAL,4200
EB-20049382	1 to 2	AB	19 Feb 19	APPVL,SCHEM,4200,TERMINAL
EB-20049383	1 to 4	AB	19 Feb 19	APPVL, PCA, 4200, TERMINAL
EB-20049384	1 of 1	AB	19 Feb 19	EBOM, 4200 TERMINAL
EB-20049388	1 of 4	AA	20 Mar 19	APPVL ASSY TRANSMITTER 4200
EB-20057899	1 of 1	AA	20 Mar 19	APPVL ASSY CLAMP
MMI-20032616	1 of 1	AB	19 Feb 19	PCB FLEX 4200 MODULE – LAYER STACK
MMI-20032617	1 of 1	AB	19 Feb 19	PCB, FLEX 4200 DISPLAY – LAYER STACK
MMI-20033434	1 of 1	AC	19 Feb 19	4200 DISPLAY BUTTONS – LAYER STACK
MMI-20038852	1 to 2	AD	19 Feb 19	PCB, 4200 Display Controller – LAYER STACK
MMI-20046115	1 to 2	AE	19 Feb 19	PCB, 4200, 2WCORE - LAYER STACK
MMI-20046916	1 of 1	AE	19 Feb 19	4200 TERMINAL PCB GERBERS – LAYER STACK

Issue 1 – No new drawings were issued.

Issue 2

Drawing	Sheets	Rev.	Date (Stamp)	Title
MMI-20046115	1 to 2	AG	23 Aug 22	PCB, 4200, 2WCORE - LAYER STACK Updated from revision AE. Evaluation performed under Project 80158791, North America Certification Report 70183767
MMI-20031142	1 to 2	AF	03 Aug 23	PCB, 4700, POWER, 9W, PCB Schematic
MMI-20031144	1 to 2	AC	03 Aug 23	PCB, 4700, POWER, 4W, PCB Schematic

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Certificate Annexe



Certificate Number: Sira 19ATEX3009X

Equipment: Field Mount Loop Power Transmitter, 4200 Series
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Applicant: Micro Motion

Drawing	Sheets	Rev.	Date (Stamp)	Title
MMI-20031146	1 to 2	AE	03 Aug 23	PCB, 4700 COMMUNICATIONS BOARD PCB SCHEMATIC
MMI-20031147	1 of 1	AC	03 Aug 23	PCB, TERMINAL, PCB SCHEMATIC
MMI-20031152	1 to 2	AC	03 Aug 23	4700 DISPLAY CONTROLLER PCB, PCB SCHEMATIC
EB-20090175	1 to 15	AA	03 Aug 23	4000 SERIES MECHANICAL APPROVALS CONTROL DRAWING
MMI-20031518	1 of 1	AG	03 Aug 23	4700 POWER 4W PCA
MMI-20031566	1 of 1	AG	03 Aug 23	4700 POWER 9W PCA
MMI-20031145	1 of 1	AG	03 Aug 23	4700 COMMUNICATIONS BOARD PCA
MMI-20082368	1 of 1	AA	03 Aug 23	4700 DISPLAY BUTTONS PCB, PCB SCHEMATIC
MMI-20085529	1 of 1	AA	03 Aug 23	DISPLAY BUTTONS PCA
MMI-20021465	1 to 2	AC	03 Aug 23	RMT 9WIRE TERM PCB, PCB SCHEMATIC
MMI-20024597	1 to 2	AB	03 Aug 23	RMT 4WIRE TERM PCB, PCB SCHEMATIC

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