



# Certificate of Compliance

**Certificate:** 80102916

**Master Contract:** 152450

**Project:** 80181728

**Date Issued:** 2024-11-28

**Issued To:** Micro Motion Incorporated  
7070 Winchester Cir  
Boulder, Colorado, 80301  
United States

**Attention:** Emily Berger

*The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.*



**Issued by:** *Bhas Nanavati*  
Bhas Nanavati

## PRODUCTS

**CLASS 2252 06 - PROCESS CONTROL EQUIPMENT**

**CLASS 2252 86 - PROCESS CONTROL EQUIPMENT – Certified to US Standards**

Magnetic Flow Meter – Model 8732EM Transmitter with integral or remote mount to Model 8705M, 8705W or Model 8711M/L, 8711 R/U Magnetic Flow Tubes. Enclosure Type 4X and IP 66 Rated. Dual Seal – 8705M, 8711M/L. Maximum Process Working Pressure: 50 to 6170psi. Ambient temperature ranges are defined for Integral and Remote mount configurations on Rosemount Drawings 08732-2061 or 08732-2066. Equipment provides NON-IS connections in accordance with drawing 08732-2061 or 08732-2066:

ELECTRICAL INPUT RATINGS – 8732EM			
UNIT	AC SUPPLY	DC SUPPLY	DC SUPPLY
MAX VOLTAGE	250 VAC	42 VDC	30 VDC
MAX CURRENT	0.45 A	1.2 A	0.25



**Certificate:** 80102916  
**Project:** 80181728

**Master Contract:** 152450  
**Date Issued:** 2024-11-28

MAX POWER	40 VA	15W	3W
<b>ELECTRICAL OUTPUT RATINGS FOR “NON-IS” CIRCUITS – 8732EM</b>			
4-20mA ANALOG OUTPUT (Active/Passive)	PULSE OUTPUT (Active/Passive)	ELECTRODE CIRCUIT REMOTE JUNCTION BOX TERMINALS 19, 18, 17	
24/30VDC	12/28VDC	5V	
25/25mA	12.1/100mA	200uA	
600/750mW	73mW/1W	1mW	
MODBUS		COIL EXCITATION CIRCUIT	
100mA		500mA	
3.3VDC		40V max	
100mW		20W max	

**Magnetic Flow Transmitter Model 8712EM Wallmount**

The Magnetic Flow Transmitter Model 8712EM Wallmount is remote mounted to the 8705M, 8705W or 8711M/L, 8711 R/U Magnetic Flow Tubes. 8712EM Enclosure: Type 4X and IP 66/IP 69K Rated. Dual Seal - 8705M and 8711M/L. Maximum Process Working Pressure: 50 to 6170psi. Ambient temperature ranges are defined for Integral and Remote mount configurations on Rosemount Drawings 08732-2061 or 08732-2066.

Equipment provides Non-IS connections in accordance with drawing 08732-2061 or 08732-2066:

<b>ELECTRICAL INPUT RATINGS - 8712EM</b>			
UNIT	AC SUPPLY (Divisions)	DC SUPPLY (Divisions and Zones)	DC SUPPLY (Divisions and Zones)
MAX VOLTAGE	250 VAC	42 VDC	30 VDC
MAX CURRENT	0.45 A	1.2 A	0.25 A
MAX POWER	40 VA	15W	3W
<b>ELECTRICAL OUTPUT RATINGS FOR “NON-IS” CIRCUITS - 8712EM</b>			
4-20mA ANALOG OUTPUT (Active/Passive)	PULSE OUTPUT (Active/Passive)	ELECTRODE CIRCUIT REMOTE JUNCTION BOX TERMINALS 19, 18, 17	
24/30VDC	12/28VDC	5V	
25/25mA	12.1/100mA	200uA	
600/750mW	73mW/1W	1mW	
MODBUS		COIL EXCITATION CIRCUIT	
100mA		500mA	
3.3VDC		40V max	
100mW		9W max	

**Magnetic Flow Meter System Models 8750WDMT, 8750WDMR and 8750WDMW**

8750W Magnetic Flow Meter System (Transmitter and Flow Tube) – The transmitter may be integral (8750WDMT) or remote mounted to the flow tube. For the remote mount option there are two variations, “Remote” (8750WDMR) or “Wallmount” (8750WDMW). The “Remote” version is the same as the Integral version in that it is a rebadged 8732EM transmitter with an 8750W nameplate. The “Wallmount” variation is a



**Certificate:** 80102916  
**Project:** 80181728

**Master Contract:** 152450  
**Date Issued:** 2024-11-28

re-badged 8712EM transmitter with an 8750W nameplate. The 8750WDMT and 8750WDMR transmitters and integral-mounted flow tubes will be marked with enclosure ratings; Type 4X and IP66. Remote mounted flow tubes will be marked with enclosure ratings Type 4X, IP66/IP68/ IP69K. 8750WDMW transmitter will be marked with enclosure ratings: Type 4X, IP66/IP69K.

Ambient temperature ranges are defined for all mounting configurations on Rosemount Drawings 8750W-1051 or 8750W-2051.

Equipment provides NON-IS output connections in accordance with drawings 8750W-1051 or 8750W-2051.

ELECTRICAL INPUT RATINGS		
Integral (8750WDMT), Remote (8750WDMR) or Wallmount (8750WDMW)		
UNIT	AC SUPPLY	DC SUPPLY
MAX VOLTAGE	250 VAC	42 VDC
MAX CURRENT	0.45 A	1.2 A
MAX POWER	40 VA	15W
ELECTRICAL OUTPUT RATINGS FOR "NON-IS" CIRCUITS		
- Integral (8750WDMT), Remote (8750WDMR) or Wallmount (8750WDMW)		
4-20mA ANALOG OUTPUT (Active/Passive)	PULSE OUTPUT (Active/Passive)	ELECTRODE CIRCUIT REMOTE JUNCTION BOX TERMINALS 19, 18, 17
24/30VDC	12/28VDC	5V
25/25mA	12.1/100mA	200uA
600/750mW	73mW/1W	1mW
MODBUS		COIL EXCITATION CIRCUIT
100mA		500mA
3.3VDC		40V max
100mW		20W max

Products may be marked with any of the following Trademarks and/or Tradenames: "Rosemount" or "Micro Motion"

**CLASS 2258 02 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations**

Magnetic Flow Transmitter and Flow Tubes, Model 8732EM and Models 8705-M and 8711-M/L

Class I, Division 2, Groups A, B, C and D; (Non-Incendive)

Ex nA [ia Ga] IIC T4...T3 Gc (Transmitter)

Ex ec [ia Ga] IIC T4...T3 Gc (Transmitter)

Ex nA ia IIC T5...T3 Ga/Gc (Flow Tube)

Ex ec ia IIC T5...T3 Ga/Gc (Flow Tube)

Ex nA ic IIC T5...T3 Gc (Flow Tube)

Ex ec ic IIC T5...T3 Gc (Flow Tube)

Class II, Division 1, Groups E, F and G; Class III (Dust Ignition Proof)



**Certificate:** 80102916  
**Project:** 80181728

**Master Contract:** 152450  
**Date Issued:** 2024-11-28

Ex tb IIIC T80°C... 200°C Db (Transmitter and Flow tube)  
 Ex tb [ia Da] IIIC T80°C... 200°C Db (Transmitter with I.S. output)

Flameproof – Zone 1

Ex db eb [ia Ga] IIC T6...T3 Gb (Transmitter)  
 Ex db [ia Ga] IIC T6...T3 Gb (Transmitter)

Increased Safety – Zone 1

Ex eb ia IIC T5...T3 Ga/Gb (Flow Tube)  
 Ex eb ib IIC T5...T3 Gb (Flow Tube)

Magnetic Flow Meter – Model 8732EM Transmitter with integral or remote mount to the 8705M, 8705W (Divisions only) or 8711M/L, 8711 R/U (Divisions only) Magnetic Flow Tubes. Enclosure Type 4X and IP 66 Rated. Dual Seal - 8705M, 8711M/L. Maximum Process Working Pressure: 50 to 6170psi. Temperature Class, Maximum Surface Temperatures, and Ambient temperature ranges are defined for Integral and Remote mount configurations on Rosemount Drawings 08732-2061 (Division Installation) or 08732-2066 (Zone Installation). Equipment provides IS and NON-IS connections in accordance with drawing 08732-2061 or 08732-2066 and the following Entity Parameters:

ELECTRICAL INPUT RATINGS – 8732EM			
UNIT	AC SUPPLY		DC SUPPLY
MAX VOLTAGE	250 VAC		42 VDC
MAX CURRENT	0.45 A		1.2 A
MAX POWER	40 VA		15W
	3W		
ELECTRICAL OUTPUT RATINGS FOR “IS” CIRCUITS (Entity Parameters) – 8732EM			
4-20mA ANALOG OUTPUT	Foundation Fieldbus and Profibus Digital Output	PULSE OUTPUT	ELECTRODE CIRCUIT REMOTE JUNCTION BOX TERMINALS 19, 18, 17
U <sub>i</sub> = 30VDC	U <sub>i</sub> = 30VDC	U <sub>i</sub> = 28VDC	U <sub>o</sub> = 28.56 VDC
I <sub>i</sub> = 300mA	I <sub>i</sub> = 380mA	I <sub>i</sub> = 100mA	I <sub>o</sub> = 5.77 mA
C <sub>i</sub> = 924pF	C <sub>i</sub> = 924pF	C <sub>i</sub> = 4.5nF	P <sub>o</sub> = 165 mW
L <sub>i</sub> = 0.0uH	L <sub>i</sub> = 0.0mH	L <sub>i</sub> = 0.0uH	Co = 61.7 nF
P <sub>i</sub> = 1.0W	P <sub>i</sub> = 5.32W (FISCO)	P <sub>i</sub> = 1.0W	Lo = 1.0 H
ELECTRICAL OUTPUT RATINGS FOR “NON-IS” CIRCUITS – 8732EM			
4-20mA ANALOG OUTPUT (Active/Passive)	PULSE OUTPUT (Active/Passive)		ELECTRODE CIRCUIT REMOTE JUNCTION BOX TERMINALS 19, 18, 17
24/30VDC	12/28VDC		5V
25/25mA	12.1/100mA		200uA
600/750mW	73mW/1W		1mW
MODBUS			COIL EXCITATION CIRCUIT
100mA			500mA
3.3VDC			40V max
100mW			20W max



**Certificate:** 80102916  
**Project:** 80181728

**Master Contract:** 152450  
**Date Issued:** 2024-11-28

**Magnetic Flow Transmitter Model 8712EM Wallmount**

Class I, Division 2, Groups A, B, C and D, T4 (Non-Incendive)  
 Ex nA ic [ia Ga] IIC T4 Gc  
 Ex ec ic [ia Ga] IIC T4 Gc  
 Class II, Division 1, Groups E, F and G, T5; Class III (Dust Ignition Proof)  
 Ex tb IIIC T80°C Db  
 Ex tb [ia Da] IIIC T80°C Db (Transmitter with I.S. output)

The Magnetic Flow Transmitter Model 8712EM Wallmount is remote mounted to the 8705M, 8705W (Divisions only) or 8711M/L, 8711 R/U (Divisions only) Magnetic Flow Tubes. 8712EM Enclosure Type 4X and IP 66/IP 69K Rated. Dual Seal - 8705M, 8711M/L. Maximum Process Working Pressure: 50 to 6170psi.

Temperature Class, Maximum Surface Temperatures, and Ambient temperature ranges are defined on Drawings 08732-2061 (Division Installation) or 08732-2066 (Zone Installation).

Equipment provides IS and Non-IS connections in accordance with drawing 08732-2061 or 08732-2066 and the following Entity Parameters:

ELECTRICAL INPUT RATINGS – 8712EM			
UNIT	AC SUPPLY (Divisions)	DC SUPPLY (Divisions and Zones)	DC SUPPLY (Divisions and Zones)
MAX VOLTAGE	250 VAC	42 VDC	30 VDC
MAX CURRENT	0.45 A	1.2 A	0.25 A
MAX POWER	40 VA	15W	3W
ELECTRICAL OUTPUT RATINGS FOR “IS” CIRCUITS (Entity Parameters) – 8712EM			
4-20mA ANALOG OUTPUT	Foundation Fieldbus and Profibus Digital Output	PULSE OUTPUT	ELECTRODE CIRCUIT REMOTE JUNCTION BOX TERMINALS 19, 18, 17
U <sub>i</sub> = 30VDC	U <sub>i</sub> = 30VDC	U <sub>i</sub> = 28VDC	U <sub>o</sub> = 28.56 VDC
I <sub>i</sub> = 300mA	I <sub>i</sub> = 380mA	I <sub>i</sub> = 100mA	I <sub>o</sub> = 5.77 mA
C <sub>i</sub> = 924pF	C <sub>i</sub> = 924pF	C <sub>i</sub> = 4.5nF	P <sub>o</sub> = 165 mW
L <sub>i</sub> = 0.0uH	L <sub>i</sub> = 0.0mH	L <sub>i</sub> = 0.0uH	C <sub>o</sub> = 61.7 nF
P <sub>i</sub> = 1.0W	P <sub>i</sub> = 5.32W (FISCO)	P <sub>i</sub> = 1.0W	L <sub>o</sub> = 1.0 H
ELECTRICAL OUTPUT RATINGS FOR “NON-IS” CIRCUITS – 8712EM			
4-20mA ANALOG OUTPUT (Active/Passive)	PULSE OUTPUT (Active/Passive)	ELECTRODE CIRCUIT REMOTE JUNCTION BOX TERMINALS 19, 18, 17	
24/30VDC	12/28VDC	5V	
25/25mA	12.1/100mA	200uA	
600/750mW	73mW/1W	1mW	
MODBUS		COIL EXCITATION CIRCUIT	
100mA		500mA	
3.3VDC		40V max	
100mW		9W max	



**Certificate:** 80102916  
**Project:** 80181728

**Master Contract:** 152450  
**Date Issued:** 2024-11-28

Magnetic Flow Meter System Models 8750WDMT (Integral), 8750WDMR (Remote)

Class I, Division 2, Groups A, B, C and D; (Non-Incendive)

Ex nA [ic] IIC T4 Gc (Transmitter – DC Powered Only)

Ex ec [ic] IIC T4 Gc (Transmitter – DC Powered Only)

Ex nA ic IIC T5...T4 Gc (Flow Tube)

Ex ec ic IIC T5...T4 Gc (Flow Tube)

Class II, Division 1, Groups E, F and G; Class III (Dust Ignition Proof)

Ex tc IIIC T80 °C...T130 °C Dc (Transmitter and Flow Tube)

Ex tc [ic] IIIC T80°C...T130°C Dc (Transmitter with I.S. output)

Magnetic Flow Meter – Model 8750W Magnetic Flow Meter System (Transmitter and Flow Tube) – The transmitter may be integral (8750WDMT) or remote mounted to the flow tube.

For the remote mount option there are two variations, “Remote” (8750WDMR) or “Wallmount” (8750WDMW).

The “Remote” version is identical to the Integral version in that it is a rebadged 8732EM transmitter with an 8750W nameplate. The “Wall mount” variation is a re-badged 8712EM transmitter with an 8750W nameplate.

The 8750WDMT and 8750WDMR transmitters and integral-mounted flow tubes will be marked with enclosure ratings; TYPE 4X and IP66. Remote mounted flow tubes will be marked with enclosure ratings TYPE 4X,

IP66/IP68/ IP69K.

Temperature Class, Maximum Surface Temperatures, and Ambient temperature ranges are defined for Integral and Remote mount configurations on Rosemount Drawings 8750W-1051 (Division Installation) or 8750W-2051 (Zone Installation). Equipment provides IS and NON-IS output connections in accordance with drawings 8750W-1051 (Division Installation) or 8750W-2051 (Zone Installation).

ELECTRICAL INPUT RATINGS 8750WDMT (Integral) and 8750WDMR (Remote)			
UNIT	AC SUPPLY (Divisions)		DC SUPPLY (Divisions and Zones)
MAX VOLTAGE	250 VAC		42 VDC
MAX CURRENT	0.45 A		1.2 A
MAX POWER	40 VA		15W
ELECTRICAL OUTPUT RATINGS FOR "IS" CIRCUITS (Entity Parameters) 8750WDMT (Integral) and 8750WDMR (Remote)			
	Foundation Fieldbus and Profibus Digital Output	PULSE OUTPUT	ELECTRODE CIRCUIT REMOTE JUNCTION BOX TERMINALS 19, 18, 17
	U <sub>i</sub> = 30VDC	U <sub>i</sub> = 28VDC	U <sub>o</sub> = 28.56 VDC
	I <sub>i</sub> = 380mA	I <sub>i</sub> = 100mA	I <sub>o</sub> = 5.77 mA
	C <sub>i</sub> = 924pF	C <sub>i</sub> = 4.5nF	P <sub>o</sub> = 165 mW
	L <sub>i</sub> = 0.0mH	L <sub>i</sub> = 0.0uH	C <sub>o</sub> = 61.7 nF
	P <sub>i</sub> = 5.32W (FISCO)	P <sub>i</sub> = 1.0W	L <sub>o</sub> = 1.0 H
ELECTRICAL OUTPUT RATINGS FOR "NON-IS" CIRCUITS 8750WDMT (Integral) and 8750WDMR (Remote)			



**Certificate:** 80102916  
**Project:** 80181728

**Master Contract:** 152450  
**Date Issued:** 2024-11-28

4-20mA ANALOG OUTPUT (Active/Passive)	PULSE OUTPUT (Active/Passive)	ELECTRODE CIRCUIT REMOTE JUNCTION BOX TERMINALS 19, 18, 17
24/30VDC	12/28VDC	5V
25/25mA	12.1/100mA	200uA
600/750mW	73mW/1W	1mW
MODBUS		COIL EXCITATION CIRCUIT
100mA		500mA
3.3VDC		40V max
100mW		20W max

**Magnetic Flow Meter Transmitter Model 8750WDMW Wallmount**

Class I, Division 2, Groups A, B, C and D, T4 (Non-Incendive)

Ex nA ic [ic] IIC T4 Gc

Ex ec ic [ic] IIC T4 Gc

Class II, Division 1, Groups E, F and G, T5; Class III (Dust Ignition Proof)

Ex tc IIIC T80°C Dc

Ex tc [ic] IIIC T80°C Dc (Transmitter with I.S. output)

The Magnetic Flow Transmitter Model 8750WDMW Wallmount is remote mounted from the Magnetic Flow Tubes. The Wallmount is a re-badged 8712EM transmitter with an 8750W nameplate. Enclosure Type 4X, IP66 and IP69K Rated.

Temperature Class, Maximum Surface Temperatures, and Ambient temperature ranges are defined on Drawings 08750W-1051 (Division Installation) or 08750W-2051 (Zone Installation).

Equipment provides IS and Non-IS connections in accordance with drawing 08750W-1051 or 08750W-2051 and the following Entity Parameters:

ELECTRICAL INPUT RATINGS - 8750WDMW			
UNIT	AC SUPPLY (Divisions)		DC SUPPLY (Divisions and Zones)
MAX VOLTAGE	250 VAC		42 VDC
MAX CURRENT	0.45 A		1.2 A
MAX POWER	40 VA		15W
ELECTRICAL OUTPUT RATINGS FOR "IS" CIRCUITS (Entity Parameters) - 8750WDMW			
	Foundation Fieldbus and Profibus Digital Output	PULSE OUTPUT	ELECTRODE CIRCUIT REMOTE JUNCTION BOX TERMINALS 19, 18, 17
	Ui = 30VDC	Ui = 28VDC	Uo = 28.56 VDC
	Ii = 380mA	Ii = 100mA	Io = 5.77 mA
	Ci = 924pF	Ci = 4.5nF	Po = 165 mW
	Li = 0.0mH	Li = 0.0uH	Co = 61.7 nF
	Pi = 5.32W (FISCO)	Pi = 1.0W	Lo = 1.0 H
ELECTRICAL OUTPUT RATINGS FOR "NON-IS" CIRCUITS - 8750WDMW			





**Certificate:** 80102916  
**Project:** 80181728

**Master Contract:** 152450  
**Date Issued:** 2024-11-28

4-20mA ANALOG OUTPUT (Active/Passive)	PULSE OUTPUT (Active/Passive)	ELECTRODE CIRCUIT REMOTE JUNCTION BOX TERMINALS 19, 18, 17
24/30VDC	12/28VDC	5V
25/25mA	12.1/100mA	200uA
600/750mW	73mW/1W	1mW
MODBUS		COIL EXCITATION CIRCUIT
100mA		500mA
3.3VDC		40V max
100mW		20W max

Products may be marked with any of the following Trademarks and/or Tradenames: "Rosemount" or "Micro Motion"

**CLASS 2258 82 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations –To US Requirements**

Magnetic Flow Transmitter and Flow Tubes, Model 8732EM and Models 8705-M and 8711-M/L

Class I, Division 1, Groups C and D; (Explosion Proof)  
 Class I, Zone 1, AEx db eb [ia Ga] IIC T6...T3 Gb (Transmitter)  
 Class I, Zone 1, AEx db [ia Ga] IIC T6...T3 Gb (Transmitter)

Increased Safety – Zone 1

Class I, Zone 1, AEx eb ia IIC T5...T3 Ga/Gb (Flow Tube)  
 Class I, Zone 1, AEx eb ib IIC T5...T3 Gb (Flow Tube)

Class I, Division 2, Groups A, B, C and D; (Non-Incendive)  
 Class I, Zone 2, AEx nA [ia Ga] IIC T4...T3 Gc (Transmitter)  
 Class I, Zone 2, AEx ec [ia Ga] IIC T4...T3 Gc (Transmitter)  
 Class I, Zone 2, AEx nA ia IIC T5...T3 Ga/Gc (Flow Tube)  
 Class I, Zone 2, AEx ec ia IIC T5...T3 Ga/Gc (Flow Tube)  
 Class I, Zone 2, AEx nA ic IIC T5...T3 Gc (Flow Tube)  
 Class I, Zone 2, AEx ec ic IIC T5...T3 Gc (Flow Tube)

Class II, Division 1, Groups E, F and G; Class III (Dust Ignition Proof)  
 Zone 21 AEx tb IIIC T80 °C...T200 °C Db (Transmitter and Flow Tube)  
 Zone 21 AEx tb [ia Da] IIIC T80 °C...T200 °C Db (Transmitter with I.S. Output)

Magnetic Flow Meter – Model 8732EM Transmitter with integral or remote mount to Model 8705M, 8705W (Division only) or Model 8711M/L, 8711 R/U (Division only) Magnetic Flow Tubes. Enclosure Type 4X and IP 66 Rated Dual Seal - 8705M, 8711M/L. Maximum Process Working Pressure: 50 to 6170psi. Temperature Class, Maximum Surface Temperatures, and Ambient temperature ranges are defined for Integral and Remote mount configurations on Rosemount Drawings 08732-2061 (Division Installation) or 08732-2066





**Certificate:** 80102916  
**Project:** 80181728

**Master Contract:** 152450  
**Date Issued:** 2024-11-28

(Zone Installation). Equipment provides IS and NON-IS connections in accordance with drawing 08732-2061 or 08732-2066 and the following Entity Parameters:

ELECTRICAL INPUT RATINGS – 8732EM			
UNIT	AC SUPPLY	DC SUPPLY	DC SUPPLY
MAX VOLTAGE	250 VAC	42 VDC	30 VDC
MAX CURRENT	0.45 A	1.2 A	0.25
MAX POWER	40 VA	15W	3W
ELECTRICAL OUTPUT RATINGS FOR “IS” CIRCUITS (Entity Parameters) – 8732EM			
4-20mA ANALOG OUTPUT	Foundation Fieldbus and Profibus Digital Output	PULSE OUTPUT	ELECTRODE CIRCUIT REMOTE JUNCTION BOX TERMINALS 19, 18, 17
U <sub>i</sub> = 30VDC	U <sub>i</sub> = 30VDC	U <sub>i</sub> = 28VDC	U <sub>o</sub> = 28.56 VDC
I <sub>i</sub> = 300mA	I <sub>i</sub> = 380mA	I <sub>i</sub> = 100mA	I <sub>o</sub> = 5.77 mA
C <sub>i</sub> = 924pF	C <sub>i</sub> = 924pF	C <sub>i</sub> = 4.5nF	P <sub>o</sub> = 165 mW
L <sub>i</sub> = 0.0uH	L <sub>i</sub> = 0.0mH	L <sub>i</sub> = 0.0uH	C <sub>o</sub> = 61.7 nF
P <sub>i</sub> = 1.0W	P <sub>i</sub> = 5.32W (FISCO)	P <sub>i</sub> = 1.0W	L <sub>o</sub> = 1.0 H
ELECTRICAL OUTPUT RATINGS FOR “NON-IS” CIRCUITS – 8732EM			
4-20mA ANALOG OUTPUT (Active/Passive)	PULSE OUTPUT (Active/Passive)	ELECTRODE CIRCUIT REMOTE JUNCTION BOX TERMINALS 19, 18, 17	
24/30VDC	12/28VDC	5V	
25/25mA	12.1/100mA	200uA	
600/750mW	73mW/1W	1mW	
MODBUS		COIL EXCITATION CIRCUIT	
100mA		500mA	
3.3VDC		40V max	
100mW		20W max	

**Magnetic Flow Transmitter Model 8712EM Wallmount**

- Class I, Division 2, Groups A, B, C and D, T4 (Non-Incendive)
- Class I Zone 2 AEx nA ic [ia Ga] IIC T4 Gc
- Class I Zone 2 AEx ec ic [ia Ga] IIC T4 Gc
- Class II, Division 1, Groups E, F and G, T5; Class III (Dust Ignition Proof)
- Zone 21 AEx tb IIIC T80°C Db
- Zone 21 AEx tb [ia Da] IIIC T80°C Db (Transmitter with I.S. output)

The Magnetic Flow Transmitter Model 8712EM Wallmount is remote mounted to the 8705M, 8705W (Divisions only) or 8711M/L, 8711 R/U (Divisions only) Magnetic Flow Tubes. 8712EM Enclosure Type 4X and IP 66/IP 69K Rated; Dual Seal - 8705M, 8711M/L. Maximum Process Working Pressure: 50 to 6170psi. Temperature Class, Maximum Surface Temperatures, and Ambient temperature ranges are defined for Integral and Remote mount configurations on Rosemount Drawings 08732-2061 (Division Installation) or 08732-2066 (Zone Installation).



**Certificate:** 80102916  
**Project:** 80181728

**Master Contract:** 152450  
**Date Issued:** 2024-11-28

Equipment provides IS and Non-IS connections in accordance with drawing 08732-2061 or 08732-2066 and the following Entity Parameters:

ELECTRICAL INPUT RATINGS - 8712EM			
UNIT	AC SUPPLY (Divisions)	DC SUPPLY (Divisions and Zones)	DC SUPPLY (Divisions and Zones)
MAX VOLTAGE	250 VAC	42 VDC	30 VDC
MAX CURRENT	0.45 A	1.2 A	0.25 A
MAX POWER	40 VA	15W	3W
ELECTRICAL OUTPUT RATINGS FOR "IS" CIRCUITS (Entity Parameters) - 8712EM			
4-20mA ANALOG OUTPUT	Foundation Fieldbus and Profibus Digital Output	PULSE OUTPUT	ELECTRODE CIRCUIT REMOTE JUNCTION BOX TERMINALS 19, 18, 17
U <sub>i</sub> = 30VDC	U <sub>i</sub> = 30VDC	U <sub>i</sub> = 28VDC	U <sub>o</sub> = 28.56 VDC
I <sub>i</sub> = 300mA	I <sub>i</sub> = 380mA	I <sub>i</sub> = 100mA	I <sub>o</sub> = 5.77 mA
C <sub>i</sub> = 924pF	C <sub>i</sub> = 924pF	C <sub>i</sub> = 4.5nF	P <sub>o</sub> = 165 mW
L <sub>i</sub> = 0.0uH	L <sub>i</sub> = 0.0mH	L <sub>i</sub> = 0.0uH	C <sub>o</sub> = 61.7 nF
P <sub>i</sub> = 1.0W	P <sub>i</sub> = 5.32W (FISCO)	P <sub>i</sub> = 1.0W	L <sub>o</sub> = 1.0 H
ELECTRICAL OUTPUT RATINGS FOR "NON-IS" CIRCUITS - 8712EM			
4-20mA ANALOG OUTPUT (Active/Passive)	PULSE OUTPUT (Active/Passive)	ELECTRODE CIRCUIT REMOTE JUNCTION BOX TERMINALS 19, 18, 17	
24/30VDC	12/28VDC	5V	
25/25mA	12.1/100mA	200uA	
600/750mW	73mW/1W	1mW	
MODBUS	COIL EXCITATION CIRCUIT		
100mA	500mA		
3.3VDC	40V max		
100mW	9W max		

Magnetic Flow Meter System Models 8750WDMT (Integral), 8750WDMR (Remote)

- Class I, Division 2, Groups A, B, C and D; (Non-Incendive)
- Class I, Zone 2, AEx nA [ic] IIC T4 Gc (Transmitter – DC Powered Only)
- Class I, Zone 2, AEx ec [ic] IIC T4 Gc (Transmitter – DC Powered Only)
- Class I, Zone 2, AEx nA ic IIC T5...T4 Gc (Flow Tube)
- Class I, Zone 2, AEx ec ic IIC T5...T4 Gc (Flow Tube)
- Class II, Division 1, Groups E, F and G; Class III (Dust Ignition Proof)
- Zone 22, AEx tc IIIC T80°C... 130°C Dc (Transmitter and Flow Tube)
- Zone 22 AEx tc [ic] IIIC T80°C...T130°C Dc (Transmitter with I.S. output)

8750W Magnetic Flow Meter System (Transmitter and Flow Tube) – The transmitter may be integral (8750WDMT) or remote mounted to the flow tube. For the remote mount option there are two variations, "Remote" (8750WDMR) or "Wallmount" (8750WDMW). The "Remote" version is the same as the Integral



**Certificate:** 80102916  
**Project:** 80181728

**Master Contract:** 152450  
**Date Issued:** 2024-11-28

version in that it is a rebadged 8732EM transmitter with an 8750W nameplate. The “Wall-mount” variation is a re-badged 8712EM transmitter with an 8750W nameplate. The 8750WDMT and 8750WDMR transmitters and integral-mounted flow tubes will be marked with enclosure ratings; Type 4X and IP66 Rated. Remote mounted flow tubes will be marked with enclosure ratings Type 4X, IP66/IP68/ IP69K.

Temperature Class, Maximum Surface Temperatures, and Ambient temperature ranges are defined for Integral and Remote mount configurations on Rosemount Drawings 8750W-1051 (Division Installation) or 8750W-2051 (Zone Installation).

Equipment provides IS and NON-IS output connections in accordance with drawings 8750W-1051 (Division Installation) or 8750W-2051 (Zone Installation).

ELECTRICAL INPUT RATINGS 8750WDMT (Integral) and 8750WDMR (Remote)			
UNIT	AC SUPPLY		DC SUPPLY
MAX VOLTAGE	250 VAC		42 VDC
MAX CURRENT	0.45 A		1.2 A
MAX POWER	40 VA		15W
ELECTRICAL OUTPUT RATINGS FOR "IS" CIRCUITS (Entity Parameters) 8750WDMT (Integral) and 8750WDMR (Remote)			
	Foundation Fieldbus and Profibus Digital Output	PULSE OUTPUT	ELECTRODE CIRCUIT REMOTE JUNCTION BOX TERMINALS 19, 18, 17
	U <sub>i</sub> = 30VDC	U <sub>i</sub> = 28VDC	U <sub>o</sub> = 28.56 VDC
	I <sub>i</sub> = 380mA	I <sub>i</sub> = 100mA	I <sub>o</sub> = 5.77 mA
	C <sub>i</sub> = 924pF	C <sub>i</sub> = 4.5nF	P <sub>o</sub> = 165 mW
	L <sub>i</sub> = 0.0mH	L <sub>i</sub> = 0.0uH	C <sub>o</sub> = 61.7 nF
	P <sub>i</sub> = 5.32W (FISCO)	P <sub>i</sub> = 1.0W	L <sub>o</sub> = 1.0 H
ELECTRICAL OUTPUT RATINGS FOR “NON-IS” CIRCUITS 8750WDMT (Integral) and 8750WDMR (Remote)			
4-20mA ANALOG OUTPUT (Active/Passive)	PULSE OUTPUT (Active/Passive)		ELECTRODE CIRCUIT REMOTE JUNCTION BOX TERMINALS 19, 18, 17
24/30VDC	12/28VDC		5V
25/25mA	12.1/100mA		200uA
600/750mW	73mW/1W		1mW
MODBUS		COIL EXCITATION CIRCUIT	
100mA		500mA	
3.3VDC		40V max	
100mW		20W max	

**Magnetic Flow Meter Transmitter Model 8750WDMW Wallmount**

Class I, Division 2, Groups A, B, C and D, T4 (Non-Incendive)  
 Class 1 Zone 2 AEx nA ic [ic] IIC T4 Gc  
 Class 1 Zone 2 AEx ec ic [ic] IIC T4 Gc



**Certificate:** 80102916  
**Project:** 80181728

**Master Contract:** 152450  
**Date Issued:** 2024-11-28

Class II, Division 1, Groups E, F and G, T5; Class III (Dust Ignition Proof)  
 Zone 22 AEx tc IIIC T80°C Dc  
 Zone 22 AEx tc [ic] IIIC T80°C Dc (Transmitter with I.S. output)

The Magnetic Flow Transmitter Model 8750WDMW Wallmount is remote mounted from the Magnetic Flow Tubes. The Wallmount is a re-badged 8712EM transmitter with an 8750W nameplate. Enclosure Type 4X, IP66 and IP69K Rated.

Temperature Class, Maximum Surface Temperatures, and Ambient temperature ranges are defined on Drawings 08750W-1051 (Division Installation) or 08750W-2051 (Zone Installation).

Equipment provides IS and Non-IS connections in accordance with drawing 08750W-1051 or 08750W-2051 and the following Entity Parameters:

ELECTRICAL INPUT RATINGS – 8750WDMW			
UNIT	AC SUPPLY (Divisions)		DC SUPPLY (Divisions and Zones)
MAX VOLTAGE	250 VAC		42 VDC
MAX CURRENT	0.45 A		1.2 A
MAX POWER	40 VA		15W
ELECTRICAL OUTPUT RATINGS FOR “IS” CIRCUITS (Entity Parameters) – 8750WDMW			
	Foundation Fieldbus and Profibus Digital Output	PULSE OUTPUT	ELECTRODE CIRCUIT REMOTE JUNCTION BOX TERMINALS 19, 18, 17
	U <sub>i</sub> = 30VDC	U <sub>i</sub> = 28VDC	U <sub>o</sub> = 28.56 VDC
	I <sub>i</sub> = 380mA	I <sub>i</sub> = 100mA	I <sub>o</sub> = 5.77 mA
	C <sub>i</sub> = 924pF	C <sub>i</sub> = 4.5nF	P <sub>o</sub> = 165 mW
	L <sub>i</sub> = 0.0mH	L <sub>i</sub> = 0.0uH	C <sub>o</sub> = 61.7 nF
	P <sub>i</sub> = 5.32W (FISCO)	P <sub>i</sub> = 1.0W	L <sub>o</sub> = 1.0 H
ELECTRICAL OUTPUT RATINGS FOR “NON-IS” CIRCUITS – 8750WDMW			
4-20mA ANALOG OUTPUT (Active/Passive)	PULSE OUTPUT (Active/Passive)		ELECTRODE CIRCUIT REMOTE JUNCTION BOX TERMINALS 19, 18, 17
24/30VDC	12/28VDC		5V
25/25mA	12.1/100mA		200uA
600/750mW	73mW/1W		1mW
MODBUS			COIL EXCITATION CIRCUIT
100mA			500mA
3.3VDC			40V max
100mW			20W max

Products may be marked with any of the following Trademarks and/or Tradenames: "Rosemount" or "Micro Motion"



**Certificate:** 80102916  
**Project:** 80181728

**Master Contract:** 152450  
**Date Issued:** 2024-11-28

### Model Nomenclature

8732EM-abcde Magnetic Flow Meter

a = Transmitter Mounting Options: R or T.

b = Power Supply: 1, 2, or 3.

c = Outputs: A, B, E, M, F or P

d = Conduit Entry: 1, 2, 4 or 5. (Codes 3 and 6 are for ordinary location only)

e = Options: Any Alpha-Numeric characters representing product options up to fifty digits. Includes Safety Approval Code Options N5, N6, KU, K5, NC, K6 or blank (ordinary locations).

Special Conditions of Safe Use: (For Class/Division)

1. For use with the appropriate 8705M and 8711M/L Flow tubes only.
2. When the 8732EM transmitter is integrally mounted to 8705M or 8711M/L Flow Tubes, the ambient temperature ranges marked on each product need to be taken into consideration before installation. The Ambient temperature range for 8732EM transmitter is  $-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$  and the ambient temperature range for 8705M or 8711M/L Flow Tubes is  $-29^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ . Therefore, the  $-29^{\circ}\text{C}$  rating of the flow tubes will limit the overall cold temperature range of the complete system unless other approved temperature control methods are employed. The ambient temperature range for the 8732EM EtherNet/IP transmitter is  $-20^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ ; therefore, the  $-20^{\circ}\text{C}$  rating for the EtherNet/IP transmitter will limit the overall cold temperature range of the complete system unless other approved temperature control measures are employed.
3. When the 8732EM transmitter is integrally mounted to 8705W or 8711R/U flow tubes, the ambient temperature ranges marked on each product need to be taken into consideration before installation. The ambient temperature for 8732EM transmitter is  $-40^{\circ}\text{C}$  to  $60^{\circ}\text{C}$  and the ambient temperature range for 8705W or 8711R/U flowtube is  $-50^{\circ}\text{C}$  to  $60^{\circ}\text{C}$ . Therefore, the  $-40^{\circ}\text{C}$  rating of the transmitter will limit the overall cold temperature range of the complete system unless other approved temperature control methods are employed. The ambient temperature range for the 8732EM EtherNet/IP transmitter is  $-20^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ ; therefore, the  $-20^{\circ}\text{C}$  rating for the EtherNet/IP transmitter will limit the overall cold temperature range of the complete system unless other approved temperature control measures are employed.
4. The intrinsically safe 4-20 mA and pulse output cannot withstand the 500 V isolation test between signal and ground, due to integral transient protection up to a voltage of 250 Vac. This must be taken into account upon installation.

Special Conditions for Safe Use (X) for Class Zone:

1. Warning – Ignition hazard, wetted parts may contain Titanium and Zirconium. For processes requiring EPL Ga and Gb rated equipment, suitability for use must be determined by the end user to eliminate ignition hazard due to impact or friction.
2. When “Special Paint Systems” are applied, instructions for safe use regarding potential electrostatic charging hazard have to be followed.
3. Terminals 1,2,3,4, for data communication, cannot withstand the 500 V isolation test between Signal and ground, due to integral transient protection. This must be taken into account upon



**Certificate:** 80102916  
**Project:** 80181728

**Master Contract:** 152450  
**Date Issued:** 2024-11-28

Installation.

4. Conduit entries must be installed to maintain the enclosure ingress rating of IP66.
5. In order to maintain the ingress protection level on the M3 and M4 electrode housing, the copper crush washer that seals the electrode access plug shall be replaced when the plug is reinstalled. The copper crush washer is one time use only.
6. The flow tube and transmitter are not allowed to be thermally insulated.
7. The property class of the special fasteners which attach the Magnetic Flow Tube or Transmitter Remote Junction Box to the Magnetic Transmitter is A2-70 or A4-70 SST.
8. For information on the dimensions of the flameproof joints the manufacturer shall be contacted.
9. The Magnetic Flow Meter Tube contains nonconductive liners over the grounded tube. For process requiring EPL Ga, precautions shall be taken to avoid the liner being charged by the flow of nonconductive media.

8705abcdefgh. Magnetic Flow tube

a = Lining material: Any one digit alpha or numeric character

b = Electrode Material: Any one digit alpha or numeric character

c = Electrode Type: Any one digit alpha or numeric character

d = Line Size: 005, 010, 015, 020, 025, 030, 040, 050, 060, 080, 100, 120, 140, 160, 180, 200, 240, 300, or 360.

e = Flange Material: Any one digit alpha or numeric character

f = Flange Rating: Any one digit alpha or numeric character

g = Electrode Housing: M0, M1, M2, M3 or M4.

h = Options: Any Alpha-Numeric characters representing non-safety product options up to fifty-two digits in length. Includes safety approval code options N5, N6, KU, K5, NC, K6 or blank (ordinary locations). and/or Dual Seal option code DS or blank (no sealing).

8711abcdefg. Magnetic Flow tube

a = Lining material: Any one digit alpha or numeric character

b = Electrode Material: Any one digit alpha or numeric character

c = Electrode Type: Any one digit alpha or numeric character

d = Line Size: 015, 020, 030, 040, 060, and 080

e = Transmitter Mounting Configuration: L or M.

f = Mating Flange: Any one digit alpha or numeric character

g = Options: Any Alpha-Numeric characters representing product options up to fifty-four digits in length.

Includes Safety Approval Code Options N5, N6, KU, K5, NC, K6 or blank (ordinary locations). and/or Dual Seal option code DS or blank (no sealing).

Special Conditions of Use for Class Division:

1. The flow tube is IP68 only when mounted remotely from the transmitter.
2. Options V1, V2 or V3 are not Type 4X Corrosion Resistant.



**Certificate:** 80102916  
**Project:** 80181728

**Master Contract:** 152450  
**Date Issued:** 2024-11-28

- Options F0234, V1, V2, or V3 may be subject to electrostatic discharge. To avoid electrostatic charge build-up, do not rub the flowmeter with a dry cloth or clean with solvents.

Special Conditions for Safe Use (X) for Class Zone:

- Warning – Ignition hazard, wetted parts may contain Titanium and Zirconium. For processes requiring EPL Ga and Gb rated equipment, suitability for use must be determined by the end user to eliminate ignition hazard due to impact or friction.
- When “Special Paint Systems” are applied, instructions for safe use regarding potential electrostatic charging hazard have to be followed.
- Terminals 1,2,3,4, for data communication, cannot withstand the 500 V isolation test between Signal and ground, due to integral transient protection. This must be taken into account upon installation.
- Conduit entries must be installed to maintain the enclosure ingress rating of IP66.
- In order to maintain the ingress protection level on the M3 and M4 electrode housing, the copper crush washer that seals the electrode access plug shall be replaced when the plug is reinstalled. The copper crush washer is one time use only.
- The flow tube and transmitter are not allowed to be thermally insulated.
- The property class of the special fasteners which attach the Magnetic Flow Tube or Transmitter Remote Junction Box to the Magnetic Transmitter is A2-70 or A4-70 SST.
- For information on the dimensions of the flameproof joints the manufacturer shall be contacted.
- The Magnetic Flow Meter Tube contains nonconductive liners over the grounded tube. For process requiring EPL Ga, precautions shall be taken to avoid the liner being charged by the flow of nonconductive media.

8712EM-abcde Magnetic Flow Transmitter

a = Transmitter Mounting Options: R

b = Power Supply: 1, 2 or 3.

c = Outputs: A, B, M, F or P

d = Conduit Entry: 1 or 2. (Code 3 is for ordinary location only)

e = Options: Any Alpha-Numeric characters representing product options up to fifty digits. Includes Safety Approval Code Options N5, N6, NC or blank (ordinary locations).

Special Conditions of Safe Use: (For Class/Division)

- For use with the appropriate 8705 and 8711 Flow tubes only.
- The intrinsically safe 4-20 mA and pulse output cannot withstand the 500 V isolation test between signal and ground, due to integral transient protection up to a voltage of 250 Vac. This must be taken into account upon installation.

Special Conditions for Safe Use (X) for Class Zone:

- Warning – Ignition hazard, wetted parts may contain Titanium and Zirconium. For processes requiring EPL Ga and Gb rated equipment, suitability for use must be determined by the end user to eliminate ignition hazard due to impact or friction.





**Certificate:** 80102916  
**Project:** 80181728

**Master Contract:** 152450  
**Date Issued:** 2024-11-28

2. When “Special Paint Systems” are applied, instructions for safe use regarding potential electrostatic charging hazard have to be followed.
3. Conduit entries must be installed to maintain the enclosure ingress rating of IP66 or IP69K
4. In order to maintain the ingress protection level on the M3 and M4 electrode housing, the copper crush washer that seals the electrode access plug shall be replaced when the plug is reinstalled.  
The copper crush washer is one time use only.
5. The flow tube and transmitter are not allowed to be thermally insulated.
6. The property class of the special fasteners which attach the Magnetic Flow Tube or Transmitter Remote Junction Box to the Magnetic Transmitter is A2-70 or A4-70 SST.
7. For information on the dimensions of the flameproof joints the manufacturer shall be contacted.
8. The Magnetic Flow Meter Tube contains nonconductive liners over the grounded tube. For process requiring EPL Ga, precautions shall be taken to avoid the liner being charged by the flow of nonconductive media.
9. When utilizing the keypad of Magnetic Flow Transmitter Model 8712EM, instruction for safe use regarding potential electrostatic charging hazard have to be followed.
10. Terminals for the output signals of the magnetic Flow Transmitters, cannot withstand the 500V isolation test between signal and ground, due to integral transient protection. This must be taken into account upon installation.

8750WDabcdefghijkm... Magnetic Flow Meter

a = Transmitter Class: M, or 0

b= Transmitter Mount: R, T, or W.

c = Power Supply: 0, 1, or 2.

d = Outputs: A, M, E, 0, F or P

e = Conduit Entry: 0, 1, 2, 4, or 5

f= Sensor Style: F or 0

g= Lining Material: Any one digit alpha or numeric character

h = Electrode Material: Any one digit alpha or numeric character

i = Electrode Type: Any one digit alpha or numeric character

j= Line Size: 000, 005, 010, 015, 020, 025, 030, 040, 050, 060, 080, 100, 120, 140, 160, 180, 200, 240, 300, 360, 400, 420, and 480.

k= Flange Type: Any one digit alpha or numeric character

l=Flange Rating: Any two digit alpha or numeric character

m = Options: Any Alpha-Numeric characters representing product options up to forty-five digits in length. Includes Safety Approval Code Options Z5, Z6, ZC or blank (ordinary locations).

Special Conditions of Safe Use for Class Division:

1. Flow tube to be used only in a non-flammable process.



**Certificate:** 80102916  
**Project:** 80181728

**Master Contract:** 152450  
**Date Issued:** 2024-11-28

---

Special Conditions for Safe Use (X) for Class Zone:

1. When “Special Paint Systems” are applied, instructions for safe use regarding potential electrostatic charging hazard have to be followed.
2. Conduit entries must be installed to maintain the enclosure ingress rating of IP66 (Transmitter and Flow Tube), IP68 or IP69K (Flow Tube) as applicable.

8750WDMabcde Magnetic Flow Transmitter

a = Transmitter Mounting Options: W

b = Power Supply: 1, or 2.

c = Outputs: A, M, E, 0, F or P

d = Conduit Entry: 0, 1, 2, 4, or 5

e = Options: Any Alpha-Numeric characters representing product options up to fifty digits. Includes Safety Approval Code Options Z5, Z6, ZC or blank (ordinary locations).

Special Conditions of Safe Use for Class Division:

1. Flow tube to be used only in a non-flammable process.

Special Conditions for Safe Use (X) for Class Zone:

1. When “Special Paint Systems” are applied, instructions for safe use regarding potential electrostatic charging hazard have to be followed.
2. Conduit entries must be installed to maintain the enclosure ingress rating of IP66 (Transmitter and Flow Tube), IP68 or IP69K (Flow Tube) as applicable.
3. Terminals for the output signals of the Magnetic Flow Transmitters, cannot withstand the 500V isolation test between signal and ground, due to integral transient protection. This must be taken into account upon utilization.
4. When utilizing the keypad of Magnetic Flow Transmitter Model 8750WDMW, instructions for safe use regarding potential electrostatic charging hazard have to be followed.



**Certificate:** 80102916  
**Project:** 80181728

**Master Contract:** 152450  
**Date Issued:** 2024-11-28

### APPLICABLE REQUIREMENTS

CSA C22.2 No. 94.2-15	Enclosures for electrical equipment, environmental considerations
CSA C22.2 No. 142-M1987 (R2014)	Process Control Equipment
CSA C22.2 No. 213-M1987 (R2013)	Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations
CAN/CSA C22.2 No. 60079-0-2019	Electrical apparatus for explosive gas atmospheres; Part 0: General requirements
CAN/CSA-C22.2 No. 60079-1-2016	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
CAN/CSA-C22.2 No. 60079-7-16	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
CAN/CSA C22.2 No. 60079-11-14	Electrical apparatus for explosive gas atmospheres; Part 11: Intrinsic safety "i"
CAN/CSA-C22.2 No. 60079-15:16	Part 15: Equipment Protection by Type of protection "n"
CAN/CSA-C22.2 No. 60079-31:15	Part 31: Equipment dust ignition protection by enclosure "t"
CAN/CSA-C22.2 No. 61010-1-17	Safety requirements for electrical equipment for measurement, control, and laboratory use
FM 3600: 2011	Electrical Equipment for Use in Hazardous (Classified) Locations – General Requirements
FM 3610: 2010	Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II and III, Division 1, Hazardous Locations
FM 3611: 2004	Non-Incendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations
FM 3615: 2006	Explosion-Proof Electrical Equipment General Requirements
FM 3616: 2011	Dust-Ignition Proof Electrical Equipment General Requirements
UL 50E Second Edition	Enclosures for electrical equipment, environmental considerations
UL Standard 508 Seventeenth Edition	Electric Industrial Control Equipment
UL 60079-0 - 2019	Electrical apparatus for explosive gas atmospheres; Part 0: General requirements
UL 60079-1 - 2015	Electrical apparatus for explosive gas atmospheres; Part 1: Equipment Protection by Flameproof Enclosures Type "d"
UL 60079-7 - 2017	Explosive Atmospheres - Part 7: Equipment protection by increased safety "e"
ANSI/ISA-60079-11 (12.02.01) - 2013	Electrical apparatus for explosive gas atmospheres; Part 11: Intrinsic safety "i"
ANSI/UL-60079-15 - 2013	Electrical apparatus for explosive gas atmospheres; Part 15: Equipment Protection by Type "n"
UL 60079-31 - 2015	Part 31: Equipment Dust Ignition Protection by Enclosure "t" (Edition 1.1)
ANSI / ISA 61010-1 (82.02.01) - 2015	Safety requirements for electrical equipment for measurement, control, and laboratory use
ANSI/UL 122701 - 2017 (Third Edition)	Requirements for Process Sealing Between Electrical Systems and Flammable or Combustible Process Fluids

## MARKINGS

The manufacturer is required to apply the following markings:




- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.


Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The products listed are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and U.S. Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only.

The Information shall appear as follows:

- Submitter's name, trademark, ("Micro Motion" or "Rosemount") or CSA Master Contract Number, adjacent the CSA Mark
- Date Code / Serial Number traceable to month and year of manufacture
- Catalogue / Model Designation: As specified in the PRODUCTS section, above
- Complete Electrical Rating: As specified in the PRODUCTS section, above
- Temperature Code: As specified in the PRODUCTS section, above
- Install as per Control Drawing 08732-2061 (Divisions), 08732-2066 (Zones) or 8750W-1051 (Divisions), 8750W-2051 (Zones) (or equivalent wording)
- The designation: CSA 21CA80102916X
- Hazardous Location Designations: As specified in the PRODUCTS section, above
- The words "INTRINSICALLY SAFE" and "SECURITE INTRINSEQUE"
- Enclosure "Type 4X"
- IP Rating, "IP 66" for the 8732EM, 8705M or 8711M/L, and IP66, IP68, or IP69K for 8750W and 8712EM
- The CSA Mark with adjacent qualifiers.
  - Note: The products listed are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US, or with adjacent indicator 'US' for US only, or without either

indicator for Canada only:  , or  , or  .

- Protective earthing TERMINAL is identified by the IEC 60417 No 5019 symbol  , adjacent to the TERMINAL;
- Neutral is identified by the letter "N"
- For the 8705M, 8711M/L
  - Rated maximum working pressure, as specified in the PRODUCTS section, above.
  - Rated process temperature range, as specified in the PRODUCTS section, above.
  - The words "DUAL SEAL"

- The following warnings shall appear on the Label:

 “WARNING: UNDERSTAND MANUAL BEFORE OPERATING.” AND “AVERTISSEMENT: LIRE ATTENTIVEMENT LES INSTRUCTIONS AVANT DE METTRE EN MARCHE.”

- The following warnings shall appear in the Installation Documentation:

WARNING - EXPLOSION HAZARD - DO NOT DISCONNECT WHILE CIRCUIT IS LIVE UNLESS AREA IS KNOWN TO BE NON-HAZARDOUS. AND;

AVERTISSEMENT - RISQUE D'EXPLOSION. NE PAS DEBRANCHER TANT QUE LE CIRCUIT EST SOUS TENSION, A MOINS QU'IL NE S'AGISSE D'UN EMPLACEMENT NON DANGEREUX.

WARNING - AFTER DE-ENERGIZING, DELAY *10* MINUTES BEFORE OPENING. AND;

AVERTISSEMENT – APRÈS MISE HORS TENSION, ATTENDRE *10 MINUTES* AVANT L'OUVERTURE.

WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS. AND;


AVERTISSEMENT – DANGER POTENTIEL DE CHARGES ÉLECTROSTATIQUES – VOIR INSTRUCTIONS

- The following additional markings are also provided:

TERMINAL markings:

Mains supply: “Use supply wire suitable for 85°C” or equivalent

Mains supply: “CU” or equivalent

- Coil terminal: Symbol ISO 7000-0434A  is marked on the product. Maximum voltage and current ratings of the Coil terminals is provided in the user documentation

Notes:

---

Products certified under Class(es) C225206, C225802 have been certified under CSA’s ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). [www.scc.ca](http://www.scc.ca)





## *Supplement to Certificate of Compliance*

**Certificate:** 80102916

**Master Contract:** 152450

*The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.*

### **Product Certification History**

---

<b>Project</b>	<b>Date</b>	<b>Description</b>
80181728	2024-11-28	Evaluation for addition of alternate terminal block including Ethernet, addition of new power supply and multiple certification drawing changes.
80122839	2022-10-13	Update to Certificate 80102916 for non-conformance issues noted in FC# 266509, FIR dated Feb. 23, 2022, Revised descriptive drawings per FIR and additional drawings; totaling 30 revised drawings. Add Dual Seal rating and update protection methods based on submitted IECEx report
80102916	2021-12-09	Transfer of Models 8732EM Magnetic Flow Transmitter, 8712EM Magnetic Flow Transmitter, 8705M, 8705W, 8711M/L, and 8711R/U Sensors(Flow Tubes), 8750W Magnetic Flow Meter System, and 8750WDMW Magnetic Flow Meter Transmitter from Master Contract 264512, Report 70081467X(Emerson – Rosemount-Micro Motion Inc.) to Master Contract 152450 (Micro Motion Incorporated).