Certificate of Compliance

Certificate: 80161326 **Master Contract:** 605138

Project: 80161326 **Date Issued:** 2023-05-11

Issued To: **OleumTech Corp**
19762 Pauling
Foothill Ranch , California 92610
United States

Attention: Patrick Clark

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: Cecilia Chien

C US

PRODUCTS

CLASS - C225802 - PROCESS CONTROL EQUIPMENT For Hazardous Locations
CLASS - C225803 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non Incendive Systems - For Hazardous Locations
CLASS - C225883 - PROCESS CONTROL EQUIPMENT Intrinsically Safe and Non-Incendive Systems-For Hazardous Locations-Certified to U.S. Standards

Ex ec IIC T6…T4 Gc
Class I, Division 2, Group A, B, C, D T6…T4
Class I, Zone 2, AEx ec IIC T6…T4 Gc

The HEFM01 series Electromagnetic Flow Meter comprises a flowmeter transmitter and a sensor body, designed to measure the volumetric flow rate of conductive fluids within a pipe. The flowmeter transmitter connects to the sensor body using a flange connection. Featuring a sensing coil and a welded enclosure, the sensor body is adaptable to accommodate various pipe dimensions.

The Electromagnetic Flow Meter is powered by a 24Vdc source and supports a medium temperature range of -20°C to +120°C. This equipment possesses an IP64 rating, in accordance with IEC 60079 standards. Additionally, it has undergone separate testing for compliance with IEC 60529 and achieved an IP67 rating. However, this IP67 rating has not been endorsed by CSA. The device operates at a rating of 24Vdc and 10W.

Detail			
Temperature Class	T4	T5	T6
Ambient range:	-40°C to +60°C	-40°C to +60°C	-40°C to +50°C
Fluid Temperature	-20°C to +120°C	-20°C to +80°C	-20°C to +60°C

The model Designation of the HEFM01 series is as follows:

Order Code: HEFM01 [ ] [ ] [ ] [ ] D [ ] [ ]

Pipe Diameter			
Code	Description	Code	Description
5	15mm	060	150mm
10	25mm	080	200mm
15	40mm	100	250mm
20	50mm	120	300mm
25	65mm	140	350mm
30	80mm	160	400mm
40	100mm	180	450mm
50	125mm	200	500mm

Connection			
Code	Description	Code	Description
A	ANSI B16.5 Class 150	D10	DIN 2501 PN10
B	ANSI B16.5 Class 300	D16	DIN 2501 PN16
D	JIS B2220 7.5K	D40	DIN 2501 PN40
E	JIS B2220 10K		
F	JIS B2220 20K		

Connection Material			
Code	Description	Code	Description
C	Carbon steel with paint coating	L	SUS316L
A	SUS304		

Electrode Material			
Code	Description	Code	Description
L	SUS316L	M	Tantalum
T	Titanium	H	Hastelloy C-276

Power	
Code	Description
D	DC 24V

Accuracy			
Code	Description	Code	Description
5	0.5%	2	0.2%
3	0.3%		

Grounding Material			
Code	Description	Code	Description
	None	M	Tantalum
L	SUS316L	H	Hastelloy C-276
T	Titanium		

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APPLICABLE REQUIREMENTS

CAN/CSA C22.2 No. 61010-1-*12 + UPD1:2015, UPD2:2016, AMD 1 – 18*	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 1: General Requirements
CAN/CSA C22.2 No. 60079-0:19	Explosive atmospheres – Part 0: Equipment – General requirements
CAN/CSA C22.2 No. 60079-7:16	Explosive atmospheres – Part 7: Equipment protection by increased safety "e"
CAN/CSA C22.2 No. 213-17 + *UPD 1 (2018) + UPD 2 (2019) + UPD 3 (2021)*	Non-incendive Electrical Equipment for Use in Class I and II, Division 2, and Class III Hazardous (Classified) Locations
ANSI/UL 61010-1-2018 *Third Edition*	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use — Part 1: General Requirements
ANSI/UL 60079-0-2020 *Seventh Edition, Reprint with Revisions Through and Including APRIL 15, 2020*	Explosive atmospheres – Part 0: Equipment – General requirements
ANSI/UL 60079-7-2017 *Fifth Edition*	Explosive Atmospheres – Part 7: Equipment protection by increased safety "e"

Notes:

Products certified under Class C225802, C225803, C225883 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC).
www.scc.ca

Supplement to Certificate of Compliance

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

Product Certification History

Project	Date	Description		
80161326	2023-05-11	Submitter Report 272705-80123792	Submitter Model EPD1	Listee Model HEFM01