



Certificate of Compliance

Certificate: 2030542 (89077)

Master Contract: 181138

Project: 2432313

Date Issued: June 21, 2011

Issued to: Siemens AG

I IA CE DE Sekr
Wuerzburger Str. 121
Fuerth, 90766
Germany
Attention: Klaus Reinelt

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.



Nicholas Cameron

Issued by: Nicholas Cameron

PRODUCTS

CLASS 2258 84 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entity - - For Hazardous Locations - Certified to US Standards

CLASS 2258 04 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entity - For Hazardous Locations

Ex nA [ia] IIC T4; Class I, Zone 2, AEx nA [ia] IIC T4

Model SIFLOW FC070 Ex Flow Transmitter; rated input 24Vdc, 0.3A, 6W; Digital Inputs 30V max, 15mA max; Digital Outputs 30V max, 30mA max; Maximum Ambient 60°C; Um = 253Vac; Provides Intrinsically Safe outputs with the following parameters.

Sensor Drive, Terminals 3, 4

Uo = 16V, Io = 66mA, Po = 0.5W, Co = 200nF, Lo = 5mH



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Sensor Pickup, Terminals 12, 13, 15, 16

$U_o = 15V$, $I_o = 7.5mA$, $P_o = 0.028W$, $C_o = 200nF$, $L_o = 20mH$

Temperature Sensor, Terminals 5, 6, 18, 19

$U_o = 15V$, $I_o = 5.8mA$, $P_o = 0.022W$, $C_o = 200nF$, $L_o = 10mH$

Model SIFLOW FC070 Ex CT Flow Transmitter; rated input 24Vdc, 0.3A, 7.2W; Digital Inputs 30V max, 15mA max; Digital Outputs 30V max, 30mA max; Maximum Ambient 60°C; $U_m = 60Vac$ (SELV); Provides Intrinsically Safe outputs with the following parameters.

Sensor Drive, Terminals 3, 4

$U_o = 16V$, $I_o = 66mA$, $P_o = 0.5W$, $C_o = 200nF$, $L_o = 5mH$

Sensor Pickup, Terminals 12, 13, 15, 16

$U_o = 15V$, $I_o = 7.5mA$, $P_o = 0.028W$, $C_o = 200nF$, $L_o = 20mH$

Temperature Sensor, Terminals 5, 6, 18, 19

$U_o = 15V$, $I_o = 5.8mA$, $P_o = 0.022W$, $C_o = 200nF$, $L_o = 10mH$

Conditions of Certification

- 1) When using the apparatus as a non sparking apparatus in Zone 2, the apparatus must be installed in a suitable enclosure with a minimum degree of protection of IP54.
- 2) The separation bar between the Intrinsically Safe and the non Intrinsically Safe conductors must be installed in accordance with the installation manual.
- 3) Vertical Mounting – Ambient temperature limits of -40°C to +50°C
- 4) Horizontal Mounting – Ambient temperature limits of -40°C to +60°C

APPLICABLE REQUIREMENTS

C22.2 No 0 - M10 - General Requirements - Canadian Electrical Code Part II.

C22.2 No 142 - M1987 - Process Control Equipment.



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CAN/CSA E60079-0:07 - Electrical apparatus for explosive gas atmospheres. PART 0: General requirements.

CAN/CSA E60079-11:02 - Electrical apparatus for explosive gas atmospheres. PART 11: Intrinsic safety "i".

CAN/CSA E60079-15:02 - Electrical apparatus for explosive gas atmospheres. PART 15: Type of protection "n"

UL 508, Seventeenth Edition - Industrial Control Equipment.

UL 60079-0 Fourth Edition - Electrical apparatus for explosive gas atmospheres. PART 0: General requirements.

UL 60079-11 Second Edition - Electrical apparatus for explosive gas atmospheres. PART 11: Intrinsic safety "i".

UL 60079-15 First Edition - Electrical apparatus for explosive gas atmospheres. PART 15: Type of protection "n"



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
2432313	June 21, 2011	Update of report 2030542 to include new model with minor deviations from original model.
2030542	May 13, 2008	Model SIFLOW FC070 Ex Flow Transmitter for Class I, Zone 2: Ex nA with I.S. outputs Ex [ia]