



Member of the FM Global Group

FM Approvals
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CERTIFICATE OF COMPLIANCE

HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

UMC3-abcd31 Coriolis Mass Flow Transmitter Integral Mount

XP-AIS/ / / / ABCD / T*: CD06100

- a = Mounting, A or B
- b = Display/Interface Board 0, 1 or 2
- c = Power Supply 1 or 2
- d = Outputs A, B, C, D or E
- * See drawing: CD06100

Special condition of Use

1. When used with Heinrichs TM, TMU or TME Coriolis Mass Flow Sensors

TM – ab-cd-efgh-A-j-k Coriolis Mass Flow Meter Integral Mount

IS / / / / ABCD / T*: CD06100

- a = Wetted materials S, H, or T
- b = Meter Line Size, when a = S: 01, 04, 07, 10, 13, 19, 25, 34, 40, 49, 55 or XX;
when a = H: 22, 25, 34, 40, 49, 55 or XX;
when a = T: 23, 28, 37, 43, 46 54 or XX
- c = Process connection 101C, 105C, 109C, 117C, 121C, 131C, 135C, 140C, 145C, 150C, 155C, 156C, 162C, 169C, 175C, 101N, 105N, 105E, 109N, 109E, 116N, 121N, 121E, 131N, 131E, 135N, 140N, 145N, 150N, 155N, 156N, 162N, 169N, 175N, 6010, 6030, 201R, 241R, 202R, 202F, 222F, 242R, 203R, 203F, 243R, 205R, 245R, 206R, 206F, 246R, 208R, 208F, 248R, 210R, 230R, 250R, 212R, 232R, 252R, 213R, 233R, 253R, 214R, 234R, 254R, 215R, 235R, 255R, 216R, 236R, 256R, 217R, 226F or XXXX
- d = Overall length 0000 or XXXX
- e = Containment Options A, E, F, R, K, S, W or X
- f = Heating/cooling 0, 1, 2, 3, 4, 5 or X
- g = Flow direction U, O, L or R
- h = Transmitter Interface 1 or 2
- j = Certificate 0, 1, 2, B or C
- k = Accessory 0 or X
- * See drawing: CD06100

Special condition of Use

1. When used with Heinrichs UMC3 Coriolis Mass Flow Transmitter

TME – Sabcd-A-f-g Coriolis Mass Flow Meter Integral Mount
IS / / / 1 / ABCD / T*: CD06100

a = Range Process Connections 13-101C, 13-101N, 13-201R, 13-221R, 16-101C, 16-101N, 16-201R, 16-221R, 25-105C, 25-105N, 25-202R, 31-105C, 31-105N, 31-202R, 34-109C, 34-109N, 34-203R, 34-223R, 40-109C, 40-109N, 40-203R, 40-223R, 49-121C, 49-121N, 49-206R, 49-226R, 55-131C, 55-131N, 55-208R, 55-228R, 58-131C, 58-131N, 58-208R, or 58-228R

b = Heating/cooling 0, 1, 2 or 3

c = Flow direction U, O, L or R

d = Transmitter Interface 1 or 2

f = Certificate 0, 1, 2, B or C

g = Supplementary Equipment 0 or X

* See drawing: CD06100

Special condition of Use

1. When used with Heinrichs UMC3 Coriolis Mass Flow Transmitter

TMU- ab-c-def-gA-ij-k Coriolis Mass Flow Meter Integral Mount
IS / / / 1 / ABCD / T*: CD06100

a = Wetted Materials S or H

b = Meter Line Size 008, 010, 015, 025, 040, 050, 080, 100, 150, 200, 250 or 300

c = Process connection 6010, 6030, 101C, 105C, 109C, 117C, 121C, 131C, 135C, 140C, 145C, 150C, 155C, 156C, 162C, 169C, 175C, 101N, 105N, 109N, 116N, 117N, 121N, 131N, 135N, 140N, 145N, 150N, 155N, 156N, 162N, 169N, 175N, 6010, 6030, 201R, 226R, 241R, 202R, 242R, 203R, 243R, 205R, 245R, 206R, 246R, 208R, 248R, 210R, 230R, 250R, 212R, 232R, 252R, 213R, 233R, 253R, 214R, 234R, 254R, 215R, 235R, 255R, 216R, 236R, 256R, 217R, 225R, 226C, 246C or XXXX

d = Containment Options A, B or X

e = Heating/cooling 0 A or B

f = Connection for the heating 0, A, B, C, D, E, F, G, H or X

g = Transmitter interface A or B

i = Calibration mass flow 1, 2, 3 or X

j = Calibration density 0, 1, 2 or X

k = Accessory 0 or X

* See drawing: CD06100

Special condition of Use

1. When used with Heinrichs UMC3 Coriolis Mass Flow Transmitter

UMC3-abcd31 Coriolis Mass Flow Transmitter Remote Mount
XP-AIS/ / / 1 / ABCD / T*: CD06100

a = Mounting C, D, E or F

b = Display/Interface Board 0, 1 or 2

c = Power Supply 1 or 2

d = Outputs A, B, C, D or E

* See drawing: CD06100

Special condition of Use

1. When used with Heinrichs TM, TMU or TME Coriolis Mass Flow Sensors

TM – ab-cd-efgh-A-j-k Coriolis Mass Flow Meter Remote Mount
IS / / / 1 / ABCD / T*: CD06100

a = Wetted materials S, H, or T

b = Meter Line Size, when a = S: 01, 04, 07, 10, 13, 19, 25, 34, 40, 49, 55 or XX
when a = H: 22, 25, 34, 40, 49, 55 or XX;
when a = T: 23, 28, 37, 43, 46, 54 or XX:

c = Process connection 101C, 105C, 109C, 117C, 121C, 131C, 135C, 140C, 145C, 150C, 155C, 156C, 162C, 169C, 175C, 101N, 105N, 105E, 109N, 109E, 116N, 121N, 121E, 131N, 131E, 135N, 140N, 145N, 150N, 155N, 156N, 162N, 169N, 175N, 6010, 6030, 201R, 241R, 202R, 202F, 222F, 242R, 203R, 203F, 243R, 205R, 245R, 206R, 206F, 246R, 208R, 208F, 248R, 210R, 230R, 250R, 212R, 232R, 252R, 213R, 233R, 253R, 214R, 234R, 254R, 215R, 235R, 255R, 216R, 236R, 256R, 217R, 226F or XXXX
d = Overall length 0000 or XXXX
e = Containment Options A, E, F, R, K, S, W or X
f = Heating/cooling 0, 1, 2, 3, 4, 5 or X
g = Flow direction U, O, L or R
h = Transmitter Interface 3, 4, 5, 6, 7 or 8
j = Certificate 0, 1, 2, B or C
k = Accessory 0 or X
* See drawing: CD06100

Special condition of Use

1. When used with Heinrichs UMC3 Coriolis Mass Flow Remote Transmitter

TME – Sabcd-A-e-f Coriolis Mass Flow Meter Remote Mount

IS / / / 1 / ABCD / T*: CD06100

a = Range Process/Connections 13-101C, 13-101N, 13-201R, 13-221R, 16-101C, 16-101N, 16-201R, 16-221R, 25-105C, 25-105N, 25-202R, 31-105C, 31-105N, 31-202R, 34-109C, 34-109N, 34-203R, 34-223R, 40-109C, 40-109N, 40-203R, 40-223R, 49-121C, 49-121N, 49-206R, 49-226R, 55-131C, 55-131N, 55-208R, 55-228R, 58-131C, 58-131N, 58-208R, 58-228R
b = Heating/cooling 0, 1, 2 or 3
c = Flow direction U, O, L or R
d = Transmitter Interface 3, 4, 6 or 7
e = Certificate 0, 1, 2 B or C
f = Accessory 0 or X
* See drawing: CD06100

Special condition of Use

1. When used with Heinrichs UMC3 Coriolis Mass Flow Remote Transmitter

TMU- ab-c-def-gA-ij-k Coriolis Mass Flow Meter Remote Mount

IS / / / 1 / ABCD / T*: CD06100

a = Wetted Materials S or H
b = Meter Line Size 008, 010, 015, 025, 040, 050, 080, 100, 150, 200, 250 or 300
c = Process connection 6010, 6030, 101C, 105C, 109C, 117C, 121C, 131C, 135C, 140C, 145C, 150C, 155C, 156C, 162C, 169C, 175C, 101N, 105N, 109N, 116N, 117N, 121N, 131N, 135N, 140N, 145N, 150N, 155N, 156N, 162N, 169N, 175N, 6010, 6030, 201R, 226R, 241R, 202R, 242R, 203R, 243R, 205R, 245R, 206R, 246R, 208R, 248R, 210R, 230R, 250R, 212R, 232R, 252R, 213R, 233R, 253R, 214R, 234R, 254R, 215R, 235R, 255R, 216R, 236R, 256R, 217R, 225R, 226C, 246C or XXXX
d = Containment Options A, B or X
e = Heating/cooling 0 or A
f = Connection for the heating 0, A, B, C, D, E, F, G, H or X
g = Transmitter interface C, D, E, F, G, H, J, K, L or M
i = Calibration mass flow 1, 2, 3 or X
j = Calibration density 0, 1, 2 or X
k = Accessory 0 or X
* See drawing: CD06100

Special condition of Use

1. When used with Heinrichs UMC3 Coriolis Mass Flow Remote Transmitter



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Equipment Ratings:

UMC3 – Explosionproof for Class I, Division 1, Groups A, B, C and D Hazardous (Classified) Locations with intrinsically safe outputs for connection to Class I Division 1 Groups A, B, C and D Hazardous Apparatus.

TM, TME and TMU – Intrinsically Safe for use in Class I, Division 1, Groups A, B, C and D Hazardous (Classified) Locations.

FM Approved for:

Heinrichs Messtechnik GmbH
Köln, Germany D-50739

This certifies that the equipment described has been found to comply with the following Approval Standards and other documents:

Class 3600	1998
Class 3610	1999
Class 3615	2006
Class 3810	2005


Original Project ID: 3023373

Approval Granted: December 7, 2006

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
020107	21 JUNE 2007		

FM Approvals LLC



Roger L. Allard
Assistant Vice President

21 JUNE 2007
Date