CERTIFICATE OF CONFORMITY

1. **HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS**
2. **Certificate No:** **FM19US0092**
3. **Equipment:**
   (Type Reference and Name)

Listing - 1
H250/M40 a25bcdefghijklmnopqrstuvwxyz, Flowmeter
Listing - 2
H250/M40 aG20bcdefghijklmnopqrstuvwx, Flowmeter
Listing - 3
H250/M40 a25bcdefghijklmnopqrstuvwxyz, Flowmeter
Listing - 4
H250/M40 aG20bcdefghijklmnopqrstuvwx, Flowmeter
Listing - 5
H250/M40 a25bcdefghijklmnopqrstuvwxyz, Flowmeter
Listing - 6
H250/M40 aG20bcdefghijklmnopqrstuvwx, Flowmeter
Listing - 7
H250/M40 a25bcdefghijklmnopqrstuvwxyz, Flowmeter
Listing - 8
H250/M40 aG20bcdefghijklmnopqrstuvwx, Flowmeter
Listing - 9
H250/M40 a25bcdefghijklmnopqrstuvwxyz, Flowmeter
Listing - 10
H250/M40 aG20bcdefghijklmnopqrstuvwx, Flowmeter

4. **Name of Listing Company:** **Krohne Messtechnik GmbH**
5. **Address of Listing Company:** **Ludwig Krohne Strasse 5**
   Duisburg
   D-47058
   Germany
6. The examination and test results are recorded in confidential report number:

   3047703 dated 23rd September 2013

Certificate issued by:

J.E. Marquedant
VP, Manager - Electrical Systems

8 December 2020
Date

To verify the availability of the Approved product, please refer to www.approvalguide.com

FM Approvals LLC. 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA
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7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:

FM Class 3600:2018, FM Class 3610:2018, FM Class 3611:2004, FM Class 3616:2011,
FM Class 3810:2005, ANSI/ISA 61010-1(82.02.01):2004, ANSI/ISA 60079-0:2009,
ANSI/ISA 60079-11:2009, ANSI/ISA 60079-15: 2009, ANSI/NEMA 250:2004, ANSI/IEC 60529:2004

8. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.

9. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.

10. Equipment Ratings:

Listing – 1, Listing – 2
Intrinsically Safe for Class I, Division 1, Groups A, B, C and D hazardous (classified) locations in accordance with drawing APPR_GD_821070-01; Intrinsically Safe for Class I, Zone 1, Group IIC hazardous (classified) locations in accordance with drawing APPR_GD_821070-01, with an ambient temperature rating of -40°C to +65°C.

Listing – 3, Listing – 4
Intrinsically Safe for Class I, Division 1, Groups A, B, C and D hazardous (classified) locations in accordance with drawing APPR_GD_821070-02; Intrinsically Safe for Class I, Zone 1, Group IIC hazardous (classified) locations in accordance with drawing APPR_GD_821070-02, with an ambient temperature rating of -40°C to +65°C.

Listing – 5, Listing – 6
Intrinsically Safe for Class I, Division 1, Groups A, B, C and D hazardous (classified) locations in accordance with drawing APPR_GD_821070-03; Intrinsically Safe for Class I, Zone 1, Group IIC hazardous (classified) locations in accordance with drawing APPR_GD_821070-03, with an ambient temperature rating of -40°C to +65°C.

Listing – 7, Listing – 8
Intrinsically Safe for Class I, Division 1, Groups A, B, C and D hazardous (classified) locations in accordance with drawing APPR_GD_821070-04; Intrinsically Safe for Class I, Zone 1, Group IIC hazardous (classified) locations in accordance with drawing APPR_GD_821070-04, with an ambient temperature rating of -40°C to +65°C.

Listing – 9, Listing – 10
Nonincendive for Class I, Division 2, Groups A, B, C, and D hazardous (classified) locations; Dust-Ignitionproof for Class II and III, Division 2, Groups E, F and G hazardous (classified) locations; Non-sparking for Class I, Zone 2, Group IIC hazardous (classified) locations, indoors and outdoors IP66, IP68, Type 4X and Type 6 with an ambient temperature rating of -40°C to +65°C.

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11. The marking of the equipment shall include:

Listing – 1, Listing – 2
H250/M40 a25bcdefghijklmnopqrstuvwxyz, Flowmeter
H250/M40 aG20bcdefghijklmnopqrstuvwx, Flowmeter
Class I, Division 1, Groups A, B, C and D; T6
Class I, Zone 1[0], AEx ia [ia Ga] IIC T6 Gb
Control Drawing APPR GD 821070-01
Tamb = -40°C to +65°C;

Listing – 3, Listing – 4
H250/M40 a25bcdefghijklmnopqrstuvwxyz, Flowmeter
H250/M40 aG20bcdefghijklmnopqrstuvwx, Flowmeter
Class I, Division 1, Groups A, B, C and D; T6
Class I, Zone 1[0], AEx ia [ia Ga] IIC T6 Gb
Control Drawing APPR GD 821070-02
Tamb = -40°C to +65°C;

Listing – 5, Listing – 6
H250/M40 a25bcdefghijklmnopqrstuvwxyz, Flowmeter
H250/M40 aG20bcdefghijklmnopqrstuvwx, Flowmeter
Class I, Division 1, Groups A, B, C and D; T6
Class I, Zone 1[0], AEx ia [ia Ga] IIC T6 Gb
Control Drawing APPR GD 821070-03
Tamb = -40°C to +65°C;

Listing – 7, Listing – 8
H250/M40 a25bcdefghijklmnopqrstuvwxyz, Flowmeter
H250/M40 aG20bcdefghijklmnopqrstuvwx, Flowmeter
Class I, Division 1, Groups A, B, C and D; T6
Class I, Zone 1[0], AEx ia [ia Ga] IIC T6 Gb
Control Drawing APPR GD 821070-03
Tamb = -40°C to +65°C;

Listing – 9, Listing 10
H250/M40 a25bcdefghijklmnopqrstuvwxyz, Flowmeter
H250/M40 aG20bcdefghijklmnopqrstuvwx, Flowmeter
Class I, Division 2, Groups A, B, C and D; T6
Class II, III, Division 2, Groups E, F and G; T6
Class I, Zone 2, AEx nA IIC T6 Gb
Ta = -40°C to +65°C; Type 4X, Type 6, IP66 and IP68

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12. **Description of Equipment:**

General - The H250/M40 Flow Meter is designed for direct recording and display of the flow rate of flammable and nonflammable gases and liquids. All signal outputs are available in 4 to 20 mA, HART, and NAMUR communications.

Construction - The H250/M40 Flow Meter electronic enclosure is made of aluminum or stainless steel for IS versions and uses the MH040 housing for NI versions. Both the IS and NI versions of the device use the H250 flowtube and guided floats.

Ratings - The H250/M40 Flow Meters operate with the following electrical parameters:

Indicator M40 ESK4; Terminal 11, 12
Current Loop:
Ui ≤ 30Vdc; Ii ≤ 130mA; Pi ≤ 1W; Ci = 0nF; Li ≤ 0.01mH

Indicator M40 ESK4-T; Terminal 1, 2 resp. 4, 5
Binary Output 1 & 2 (NAMUR):
Ui ≤ 30Vdc; Ii ≤ 130mA; Pi ≤ 1W; Ci ≤ 10nF; Li ≤ 0.1mH

Indicator M40 ESK4-T; Terminal 1, 3 resp. 4, 6
Binary Output 1 & 2 (OC):
Ui ≤ 30Vdc; Ii ≤ 130mA; Pi ≤ 1W; Ci ≤ 10nF; Li = 0mH

Indicator M40 ESK4-T; Terminal 7, 8
Binary Input:
Ui ≤ 30Vdc; Ii ≤ 130mA; Pi ≤ 1W; Ci ≤ 10nF; Li = 0mH

Indicator M40R; Terminal 1, 2 resp. 4, 5
Limit Switch:
Ui ≤ 30Vdc; Ii ≤ 100mA; Pi ≤ 1W; Ci = 0nF; Li = 0mH

Indicator M40 K.; Terminal 1, 2 resp. 4, 5
Limit switch NAMUR:
SC3,5-NO-Y…
Ui ≤ 16Vdc; Ii ≤ 25mA; Pi ≤ 34mW; Ci ≤ 150nF; Li = 150µH
SJ3,5-SN
Ui ≤ 16Vdc; Ii ≤ 25mA; Pi ≤ 34mW; Ci ≤ 30nF; Li = 100µH
SJ3,5-S1N
Ui ≤ 16Vdc; Ii ≤ 25mA; Pi ≤ 34mW; Ci ≤ 30nF; Li = 100µH
I7S23,5-N
Ui ≤ 16Vdc; Ii ≤ 25mA; Pi ≤ 34mW; Ci ≤ 150nF; Li = 150µH

Indicator M40 ESK4-FF / ESK4-PA; Terminal D, D- FISCO:
Ui ≤ 24Vdc; Ii ≤ 380mA; Pi ≤ 5.32W; Ci = 0nF; Li = 0mH

All other protection techniques, the electronic connection has the following values:

Indicator M40 ESK4 with signal output ESK4:
U = 14 - 32V; I = 4…20mA

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Indicator M40 ESK4-T with signal output ESK4 and module I/O:
U = 14 - 32V; I = 4…20mA
U = 8 - 32V; I = 1…100mA
U = 8V; I ≤ 1 / ≥3mA
U = 8 - 32V; I ≤ 2mA

Indicator M40 ESK4-FF / ESK4-PA:
U = 9 - 32V; I = 16mA

Indicator M40 K:
U = 8V; I ≤ 1 / ≥3mA

Indicator M40 R:
U = 24V; I ≤ 100mA

The H250/M40 Flow Meters are rated for use in an ambient temperature range of -40°C to +65°C. The H250/M40 Flow Meters are rated for use in a process temperature range of -40°C to +300°C.

Listing - 1
H250/M40 a25bcdefghijklmnopqrstuvwxyz, Flowmeter

Entity Parameters:
Current Loop
Ui ≤ 30Vdc, Ii ≤ 130mA, Pi ≤ 1W, Li ≤ 0.01mH, Ci = 0

Binary Output 1 and/or 2
U_i ≤ 16Vdc; I_i ≤ 52mA; P_i ≤ 169mW

Limit Switch	Type Code Option	C_i (nF)	L_i (µH)
SC3,5-NO-Y...	k = 1, 2 or 3	150	150
SJ3,5-SN	k = A, B or C	30	100
SJ3,5-S1N	k = E or F	30	100
I7S23,5-N	k = 5, 6 or 7	150	150

a = Sensor series: V or S
b = Nominal size: 1,2,3,4 or 5
c = Configuration: 4 or 9
d = Process connection: 1,2,3,4,5,6,7,8,A,B,C,D,E,F,G,H,K,L,M,N,P,R,S,T,U,V,W,X, Y or Z
e = Pressure rating: 0,1,2,3,4,7,8,A,B,C,D,G,H,K, L,M,N,P,R,S or V
f = Flange facing: 0,1,3,5,6,7,8,A,C,D,E,F,G,H,L,M,N,P,R,S,U or V
g = Cone: 1,2,3,4,5,6,7,8,A,G,H,K,L,M,N,P or R
h = Float:1,2,3,4,5,6,A,B,C,D,E,F,G,H,K,L,M,N,P,R,S,T,U,V,W,X,Y or Z
i = Heating jacket: 0,1,2,3,4 or 5
j = Indication: E,F,G,H,K or L
k = Limit switch: 0,1,2,3,5,6,7,A,B,C,E or F
l = Output: 0,8, or C
m = Approval: A
n =Options Indication: 0,2,3,A,B or C
o = Identification: 0,1,2,A,B,C,L,M,N or P
p = Certificate of compliance: 0 or 1

q = Confirmation of accuracy: 0,1,2,3,4,5,6 or 7
r = Pressure- / leakage test: 0,5,6,7,A,B,F,G or H
s = Material test / -certification: 0,1,2,5,6,F,G,H,L,N or P
t = Dye penetration test: 0,1 or A
u = Radiographic examination: 0,1 or A
v = Hardness test: 0 or 1
w = Cleaning: 0,1,3,7,A,E,G,K,L,N or P
x = Design: 0 or B
y = Flow direction: 0,1,2,3,4 or 5
z = Manual: 0,1,3 or 4

Listing - 2
H250/M40 aG20bcdefghijklmnopqrstuvwx, Flowmeter

Entity Parameters:
Current Loop
Ui ≤ 30Vdc, Ii ≤ 130mA, Pi ≤ 1W, Li ≤ 0.01mH, Ci = 0

Binary Output 1 or 2
U_i ≤ 16Vdc; I_i ≤ 52mA; P_i ≤ 169mW

Limit Switch	Type Code Option	C_i (nF)	L_i (µH)
SC3,5-NO-Y...	i = 1, 2 or 3	150	150
SJ3,5-SN	i = A, B or C	30	100
SJ3,5-S1N	i = E or F	30	100
I7S23,5-N	i = 5, 6 or 7	150	150

a = Sensor series: V or S
b = Configuration: 4 or 9
c = Material of liner and float: 2,4,A or C
d = Nominal size / process connection: 1,2,4,5,6,7,A,C,E,F,H or K
e = Pressure rating: 1,2,B or C
f = Flange facing: 1 or A
g = Float: 2,3,4,5,6,7,8,A,B,C,D,E,G,H,K,L,N,P or S
h = Void: 0
i = Indication: E,F,G,H,K or L
j = Limit switch: 0, 1, 2, 3, 5, 6, 7, A, B, C, E or F
k = Output: 0,8,or C
l = Approval: A
m = Options Indication: 0, 2, 3, A, B or C
n = Identification: 0, 1, 2, A, B, C, L, M, N or P
o = Certificate of compliance: 0 or 1
p = Confirmation of accuracy: 0,1,2,3,4,5,6 or 7
q = Pressure- / leakage test: 0,5, A or F
r = Material test / -certification: 0,1,2,5, 6, F, G or H
s = Dye penetration test (PT): 0
t = Radiographic examination (RT): 0
u = Hardness test: 0 or 1
v = Cleaning acc. manufacturer standard: 0
w = Design: 0 or B

x = Manual: 0,1,3 or 4

Listing - 3
H250/M40 a25bcdefghijklmnopqrstuvwxyz, Flowmeter

Entity Parameters:
Current Loop
Ui ≤ 30Vdc, Ii ≤ 130mA, Pi ≤ 1W, Li ≤ 0.01mH, Ci = 0

Binary Output 1 and/or 2
Ui ≤ 30Vdc, Ii ≤ 100mA, Pi ≤ 1W, Li = 0, Ci = 0

a = Sensor series: V or S
b = Nominal size: 1,2,3,4 or 5
c = Configuration: 4 or 9
d = Process connection: 1,2,3,4,5,6,7,8,A,B,C,D,E,F,G,H,K,L,M,N,P,R,S,T,U,V,W,X,Y or Z
e = Pressure rating: 0,1,2,3,4,7,8,A,B,C,D,G,H,K, L,M,N,P,R,S or V
f = Flange facing: 0,1,3,5,6,7,8,A,C,D,E,F,G,H,L,M,N,P,R,S,U or V
g = Cone: 1,2,3,4,5,6,7,8,A,G,H,K,L,M,N,P or R
h = Float:1,2,3,4,5,6,A,B,C,D,E,F,G,H,K,L,M,N,P,R,S,T,U,V,W,X,Y or Z
i = Heating jacket: 0,1,2,3,4 or 5
j = Indication: E,F,G,H,K or L
k = Limit switch: S,T or U
l = Output: 0,8,or C
m = Approval: A
n =Options Indication: 0,2,3,A,B or C
o = Identification: 0,1,2,A,B,C,L,M,N or P
p = Certificate of compliance: 0 or 1
q = Confirmation of accuracy: 0,1,2,3,4,5,6 or 7
r = Pressure- / leakage test: 0,5,6,7,A,B,F,G or H
s = Material test / -certification: 0,1,2,5,6,F,G,H,L,N or P
t = Dye penetration test: 0,1 or A
u = Radiographic examination: 0,1 or A
v = Hardness test: 0 or 1
w = Cleaning: 0,1,3,7,A,E,G,K,L,N or P
x = Design: 0 or B
y = Flow direction: 0,1,2,3,4 or 5
z = Manual: 0,1,3 or 4

Listing - 4
H250/M40 aG20bcdefghijklmnopqrstuvwx, Flowmeter

Entity Parameters:
Current Loop
Ui ≤ 30Vdc, Ii ≤ 130mA, Pi ≤ 1W, Li ≤ 0.01mH, Ci = 0

Binary Output 1 and/or 2
Ui ≤ 30Vdc, Ii ≤ 100mA, Pi ≤ 1W, Li = 0, Ci = 0

a = Sensor series: V or S

b = Configuration: 4 or 9
c = Material of liner and float: 2,4,A or C
d = Nominal size / process connection: 1,2,4,5,6,7,A,C,E,F,H or K
e = Pressure rating: 1,2,B or C
f = Flange facing: 1 or A
g = Float: 2,3,4,5,6,7,8,A,B,C,D,E,G,H,K,L,N,P or S
h = 0
i = Indication: E,F,G,H,K or L
j = Limit switch: S,T or U
k = Output: 0,8 or C
l = Approval: A
m = Options Indication: 0, 2, 3, A, B or C
n = Identification: 0, 1, 2, A, B, C, L, M, N or P
o = Certificate of compliance: 0 or 1
p = Confirmation of accuracy: 0,1,2,3,4,5,6 or 7
q = Pressure- / leakage test: 0,5, A or F
r = Material test / -certification: 0,1,2,5, 6, F, G or H
s = Dye penetration test (PT): 0
t = Radiographic examination (RT): 0
u = Hardness test: 0 or 1
v = Cleaning acc. manufacturer standard: 0
w = Design: 0 or B
x = Manual: 0,1,3 or 4

Listing - 5
H250/M40 a25bcdefghijklmnopqrstuvwxyz, Flowmeter

Entity Parameters:
Current Loop
Ui ≤ 30Vdc, Ii ≤ 130mA, Pi ≤ 1W, Li ≤ 0.01mH, Ci = 0

Binary Output 1 and/or 2
Ui ≤ 30Vdc, Ii ≤ 130mA, Pi ≤ 1W, Li = 0, Ci ≤ 10nF

Binary Input
Ui ≤ 30Vdc, Ii ≤ 130mA, Pi ≤ 1W, Li = 0, Ci ≤ 10nF

a = Sensor series: V or S
b = Nominal size: 1,2,3,4 or 5
c = Configuration: 4 or 9
d = Process connection: 1,2,3,4,5,6,7,8,A,B,C,D,E,F,G,H,K,L,M,N,P,R,S,T,U,V,W,X,Y or Z
e = Pressure rating: 0,1,2,3,4,7,8,A,B,C,D,G,H,K, L,M,N,P,R,S or V
f = Flange facing: 0,1,3,5,6,7,8,A,C,D,E,F,G,H,L,M,N,P,R,S,U or V
g = Cone: 1,2,3,4,5,6,7,8,A,G,H,K,L,M,N,P or R
h = Float:1,2,3,4,5,67,8,A,B,C,D,E,F,G,H,K,L,M,N,P,R,S,T,U,V,W,X,Y or Z
i = Heating jacket: 0,1,2,3,4 or 5
j = Indication: E,F,G,H,K or L
k = Limit switch: 0
l = Output: 0,8,C or D
m = Approval: A

n =Options Indication: 0,2,3,A,B or C
o = Identification: 0,1,2,A,B,C,L,M,N or P
p = Certificate of compliance: 0 or 1
q = Confirmation of accuracy: 0,1,2,3,4,5,6 or 7
r = Pressure- / leakage test: 0,5,6,7,A,B,F,G or H
s = Material test / -certification: 0,1,2,5,6,F,G,H,L,N or P
t = Dye penetration test: 0,1 or A
u = Radiographic examination: 0,1 or A
v = Hardness test: 0 or 1
w = Cleaning: 0,1,3,7,A,E,G,K,L,N or P
x = Design: 0 or B
y = Flow direction: 0,1,2,3,4 or 5
z = Manual: 0,1,3 or 4

Listing - 6
H250/M40 aG20bcdefghijklmnopqrstuvwx, Flowmeter

Entity Parameters:
Current Loop
Ui ≤ 30Vdc, Ii ≤ 130mA, Pi ≤ 1W, Li ≤ 0.01mH, Ci = 0

Binary Output 1 and/or 2
Ui ≤ 30Vdc, Ii ≤ 130mA, Pi ≤ 1W, Li = 0, Ci ≤ 10nF

Binary Input
Ui ≤ 30Vdc, Ii ≤ 130mA, Pi ≤ 1W, Li = 0, Ci ≤ 10nF

a = Sensor series: V or S
b = Configuration: 4 or 9
c = Material of liner and float: 2,4,A or C
d = Nominal size / process connection: 1,2,4,5,6,7,A,C,E,F,H or K
e = Pressure rating: 1,2,B or C
f = Flange facing: 1 or A
g = Float: 2,3,4,5,6,7,8,A,B,C,D,E,G,H,K,L,N,P or S
h = 0
i = Indication: E,F,G,H,K or L
j = Limit switch: 0
k = Output: 0,8,C or D
l = Approvals: A
m = Options Indication: 0, 2, 3, A, B or C
n = Identification: 0, 1, 2, A, B, C, L, M, N or P
o = Certificate of compliance: 0 or 1
p = Confirmation of accuracy: 0,1,2,3,4,5,6 or 7 q = Pressure- / leakage test: 0,5, A or F
r = Material test / -certification: 0,1,2,5, 6, F, G or H
s = Dye penetration test (PT): 0
t = Radiographic examination (RT): 0
u = Hardness test: 0 or 1
v = Cleaning acc. manufacturer standard: 0
w = Design: 0 or B
x = Manual: 0,1,3 or 4

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Listing - 7

H250/M40 a25bcdefghijklmnopqrstuvwxyz, Flowmeter

Entity Parameters:
Ui ≤ 24Vdc, Ii ≤ 380mA, Pi ≤ 5.32W, Li = 0, Ci = 0

a = Sensor series: V or S
b = Nominal size: 1,2,3,4 or 5
c = Configuration: 4 or 9
d = Process connection: 1,2,3,4,5,6,7,8,A,B,C,D,E,F,G,H,K,L,M,N,P,R,S,T,U,V,W,X Y or Z
e = Pressure rating: 0,1,2,3,4,7,8,A,B,C,D,G,H,K, L,M,N,P,R,S or V
f = Flange facing: 0,1,3,5,6,7,8,A,C,D,E,F,G,H,L,M,N,P,R,S,U or V
g = Cone: 1,2,3,4,5,6,7,8,A,G,H,K,L,M,N,P or R
h = Float:1,2,3,4,5,6,7,8,A,B,C,D,E,F,G,H,K,L,M,N,P,R,S,T,U,V,W,X,Y or Z
i = Heating jacket: 0,1,2,3,4 or 5
j = Indication: E,F,G,H,K or L
k = Limit switch: 0
l = Output: E or F
m = Approval: A
n = Options Indication: 0,2,3,A,B or C
o = Identification: 0,1,2,A,B,C,L,M,N or P
p = Certificate of compliance: 0 or 1
q = Confirmation of accuracy: 0,1,2,3,4,5,6 or 7
r = Pressure- / leakage test: 0,5,6,7,A,B,F,G or H
s = Material test / -certification: 0,1,2,5,6,F,G,H,L,N or P
t = Dye penetration test: 0,1 or A
u = Radiographic examination: 0,1 or A
v = Hardness test: 0 or 1
w = Cleaning: 0,1,3,7,A,E,G,K,L,N or P
x = Design: 0 or B
y = Flow direction: 0,1,2,3,4 or 5
z = Manual: 0,1,3 or 4

Listing - 8

H250/M40 aG20bcdefghijklmnopqrstuvwx, Flowmeter

Entity Parameters:
Ui ≤ 24Vdc, Ii ≤ 380mA, Pi ≤ 5.32W, Li = 0, Ci = 0

a = Sensor series: V or S
b = Configuration: 4 or 9
c = Material of liner and float: 2,4,A or C
d = Nominal size / process connection: 1,2,4,5,6,7,A,C,E,F,H or K
e = Pressure rating: 1,2,B or C
f = Flange facing: 1 or A
g = Float: 2,3,4,5,6,7,8,A,B,C,D,E,G,H,K,L,N,P or S
h = 0
i = Indication: E,F,G,H,K or L
j = Limit switch: 0
k = Output:, E or F
l = Approval: A

m = Options Indication: 0, 2, 3, A, B or C
n Identification: 0, 1, 2, A, B, C, L, M, N or P
o = Certificate of compliance: 0 or 1
p = Confirmation of accuracy: 0,1,2,3,4,5,6 or 7
q = Pressure- / leakage test: 0,5, A or F
r = Material test / -certification: 0,1,2,5, 6, F, G or H
s = Dye penetration test (PT): 0
t = Radiographic examination (RT): 0
u = Hardness test: 0 or 1
v = Cleaning acc. manufacturer standard: 0
w = Design: 0 or B
x = Manual: 0, 1, 3 or 4

Listing - 9

H250/M40 a25bcdefghijklmnopqrstuvwxyz, Flowmeter

a = Sensor series: V or S
b = Nominal size: 1,2,3,4 or 5
c = Configuration: 4 or 9
d = Process connection: 1,2,3,4,5,6,7,8,A,B,C,D,E,F,G,H,K,L,M,N,P,R,S,T,U,V,W,X,Y or Z
e = Pressure rating: 0,1,2,3,4,7,8,A,B,C,D,G,H,K, L,M,N,P,R,S or V
f = Flange facing: 0,1,3,5,6,7,8,A,C,D,E,F,G,H,L,M,N,P,R,S,U or V
g = Cone: 1,2,3,4,5,6,7,8,A,G,H,K,L,M,N,P or R
h = Float:1,2,3,4,5,6,7,8,A,B,C,D,E,F,G,H,K,L,M,N,P,R,S,T,U,V,W,X,Y or Z
i = Heating jacket: 0,1,2,3,4 or 5
j = Indication: E,F,G,H,K or L
k = Limit switch: 0,1,2,3,5,6,7,A,B,C,E,F,S,T or U
l = Output: 0,8,C,D,E or F
m = Approval: E
n=Options Indication: 0,2,3,A,B or C
o = Identification: 0,1,2,A,B,C,L,M,N or P
p = Certificate of compliance: 0 or 1
q = Confirmation of accuracy: 0,1,2,3,4,5,6 or 7
r = Pressure- / leakage test: 0,5,6,7,A,B,F,G or H
s = Material test / -certification: 0,1,2,5,6,F,G,H,L,N or P
t = Dye penetration test: 0,1 or A
u = Radiographic examination: 0,1 or A
v = Hardness test: 0 or 1
w = Cleaning: 0,1,3,7,A,E,G,K,L,N or P
x = Design: 0 or B
y = Flow direction: 0,1,2,3,4 or 5
z = Manual: 0,1,3 or 4

Listing - 10

H250/M40 aG20bcdefghijklmnopqrstuvwx, Flowmeter

a = Sensor series: V or S
b = Configuration: 4 or 9
c = Material of liner and float: 2,4,A or C
d = Nominal size / process connection: 1,2,4,5,6,7,A,C,E,F,H or K
e = Pressure rating: 1,2,B or C
f = Flange facing: 1 or A

g = Float: 2,3,4,5,6,7,8,A,B,C,D,E,G,H,K,L,N,P or S
h = 0
i = Indication: E,F,G,H,K or L
j = Limit switch: 0, 1, 2, 3, 5, 6, 7, A, B, C, E, F, S, T or U
k = Output: 0,8,C,D,E or F
l =A
m= Options Indication: 0, 2, 3, A, B or C
n= Identification: 0, 1, 2, A, B, C, L, M, N or P
o= Certificate of compliance: 0 or 1
p = Confirmation of accuracy: 0,1,2,3,4,5,6 or 7 q = Pressure- / leakage test: 0,5, A or F
r = Material test / -certification: 0,1,2,5, 6, F, G or H
s = Dye penetration test (PT): 0
t = Radiographic examination (RT): 0
u = Hardness test: 0 or 1
v = Cleaning acc. manufacturer standard: 0
w = Design: 0 or B
x = Manual: 0, 1, 3 or 4

13. **Specific Conditions of Use:**

None

14. **Test and Assessment Procedure and Conditions:**

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

15. **Schedule Drawings**

A copy of the technical documentation has been kept by FM Approvals.

16. **Certificate History**

Details of the supplements to this certificate are described below:

Date	Description
23rd September 2013	Original Issue.
8th July 2019	Supplement 3: Report Reference: – RR217675 dated 8th July 2019. Description of the Change: Convereted to new certificate format. Update to measurement cone, label and alternative glass manufacture for window cover.
8th December 2020	Supplement 4: Report Reference: - PR456398 dated 8th December 2020. Description of the Change: Addition of high pressure options for Models K15, K25, K55, K85 and K105 measuring cones bused in the construction of the H250/M40 Variable Area Flowmeter.