

CERTIFICATE OF CONFORMITY

1. **HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS**
2. **Certificate No:** FM16US0434
3. **Equipment:** Model Cerabar-M PMC51, PMP51, PM55, Model Deltabar-M
(Type Reference and Name) PMD55, Model Deltapilot FMB50, FMB51, FMD52, FMB53
Pressure Transmitters
4. **Name of Listing Company:** Endress+Hauser GmbH+Co KG
5. **Address of Listing Company:** Hauptstrasse 1
Postfach 1261
Maulburg
D79689
Germany
6. The examination and test results are recorded in confidential report number:
3035394 dated 16th January 2004
7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:
FM Class 3600:2011, FM Class 3610:2015, FM Class 3611:2004, FM Lass 3615:2006, FM Class 3810:2005, ANSI/ISA 61010-1:2012, ANSI/ISA 60079-0:2013, ANSI/ISA 60079-11:2014, ANSI/NEMA 250:2003, ANSI/IEC 60529:2004, ANSI/ISA 12.27.01:2011
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.

Certificate issued by:



J. E. Marquedant
Manager, Electrical Systems

1 February 2017

Date

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

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FM Approvals LLC. 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA
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US Certificate Of Conformity No: FM16US0434

10. Equipment Ratings:

Intrinsically Safe for Class I, II, III Division 1, Groups A, B, C, D, E, F, and G hazardous (classified) locations, Intrinsically Safe AEx ia for Class I, Zone 0, Group IIC hazardous (classified) locations; Explosionproof for Class I, Division 1, Groups A, B, C, D hazardous (classified) locations, Explosionproof for Class I, Zone 1, Group IIC hazardous (classified) locations; Dust-Ignitionproof for Class II, III Division 1, Groups E, F, and G hazardous (classified) locations, Nonincendive for Class I, Division 2, Groups A, B, C, D, hazardous (classified) locations, Nonincendive Field Wiring Connections to Class I, Division 2, Groups A, B, C, D. Indoor and Outdoor Type 4X, Type 6P, IP66 and IP67 with a temperature Class of T4 with an ambient temperature of +70°C for Division 1, T6 with an ambient temperature of +40°C for Division 2. Single Seal per ANSI/ISA 12.27.01 and Dual Seal per ANSI/ISA 12.27.01.

11. The marking of the equipment shall include:

Cerabar-M PMC51

IS CLI, II, III, DIV 1, GP A, B, C, D, E, F, G; T*; Entity or FISCO, (reference option code b); Type 4X, 6P, IP66/67

CL I, Zone 0, AEx ia IIC T*; Entity or FISCO, (reference option code b); Type 4X, 6P, IP66/67

NI CLI, DIV 2, GP A, B, C, D; T*; NIFW (reference option code b); Type 4X, 6P, IP66/67

DIP CLII, III, DIV 1, GP E, F, G; T*; Type 4X, 6P, IP66/67

Single Seal per ANSI/ISA 12.27.01 (MWP = 40 bar)

Cerabar-M PMP51, PMP55

IS CLI, II, III, DIV 1, GP A, B, C, D, E, F, G; T*; Entity or FISCO, (reference option code b); Type 4X, 6P, IP66/67

CLI, Zone 0, AEx ia IIC T*; Entity or FISCO, (reference option code b); Type 4X, 6P, IP66/67

XP CLI, DIV 1, GP A, B, C, D; T*; Entity or FISCO, (reference option code b); Type 4X, 6P, IP66/67

XP CLI, Zn1, IIC; T*; Entity or FISCO, (reference option code b); Type 4X, 6P, IP66/67

NI CLI, DIV 2, GP A, B, C, D; T*; NIFW (reference option code b); Type 4X, 6P, IP66/67

DIP CLII, III, DIV 1, GP E, F, G; T*; Type 4X, 6P, IP66/67

Single Seal per ANSI/ISA 12.27.01 (MWP = 400 bar)

Deltabar-M PMD55

IS CLI, II, III, DIV 1, GP A, B, C, D, E, F, G; T*; Entity or FISCO, (reference option code b); Type 4X, 6P, IP66/67

CLI, Zone 0, AEx ia IIC T*; Entity or FISCO, (reference option code b); Type 4X, 6P, IP66/67

XP CLI, DIV 1, GP A, B, C, D; T*; Entity or FISCO, (reference option code b); Type 4X, 6P, IP66/67

XP CLI, Zn1, IIC; T*; Entity or FISCO, (reference option code b); Type 4X, 6P, IP66/67

NI CLI, DIV 2, GP A, B, C, D; T*; NIFW (reference option code b); Type 4X, 6P, IP66/67

DIP CLII, III, DIV 1, GP E, F, G; T*; Type 4X, 6P, IP66/67

Dual Seal per ANSI/ISA 12.27.01 (MWP = 160 bar)

Deltapilot-M FMB50, FMB51

IS CLI, II, III, DIV 1, GP A, B, C, D, E, F, G; T*; Entity or FISCO, (reference option code b); Type 4X, 6P, IP66/67

CLI, Zone 0, AEx ia IIC T*; Entity or FISCO, (reference option code b); Type 4X, 6P, IP66/67

NI CLI, DIV 2, GP A, B, C, D; T*; NIFW (reference option code b); Type 4X, 6P, IP66/67

DIP CLII, III, DIV 1, GP E, F, G; T*; Type 4X, 6P, IP66/67

Single Seal per ANSI/ISA 12.27.01 (MWP = 10 bar) (FMB50 only)

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Deltapilot-M FMB52, FMB53

IS CLI, II, III, DIV 1, GP A, B, C, D, E, F, G; T*; Entity or FISCO, (reference option code b); Type 4X, 6P, IP66/67

CLI, Zone 0, AEx ia IIC T*; Entity or FISCO, (reference option code b); Type 4X, 6P, IP66/67

12. Description of Equipment:

General - The Cerabar M Types PMC51, PMP51, PMP55, the Deltapilot M Types FMB50, FMB51, FMB52, FMB53 Pressure Transmitters and the Deltabar M Type PMD55 Differential Pressure Transmitter are designed for the measuring of differential pressure, gauge pressure and vacuum, flow and level in potentially explosive atmospheres caused by the presence of flammable gases, liquids, vapors or combustible dust. All signal outputs are available in 4 to 20mA, HART, Profibus PA or Foundation Fieldbus (FF). The applied sensor module defines the final transmitter. The sensor modules can be combined with various types of process connections, depending on the specific application requirements for chemical, sanitary, or general application.

Construction - The Cerabar, Deltapilot, and Deltabar Pressure Transmitters come in Aluminum or stainless steel enclosures and consist of a top works section for field wiring, displays, and housing the interface circuitry to the sensors. A number of different options of sensors are available depending on the required application.

Ratings

For electrical ratings and temperature ratings, refer to Control Drawings 960009151, 960009152, 960009195, 960009542, 960009543, 960014201, 960014202, 960014203, 960014213, and 960014214.

For installation instructions and the Temperature Class (*), which applies to specific Models, ambient temperature (Ta), and process medium temperature (Tmed), refer to Control Drawings referenced in option code b.

Deltabar M PMD55-abcdefghijklmn+opqrstuvwxyz

<i>Temperature class</i>	<i>Ambient temperature</i>	<i>Process temperature</i>
T6	-50°C ≤ Ta ≤ 40°C	≤ 80°C
T4	-50°C ≤ Ta ≤ 70°C	≤ 120°C

a	Approval: FA, FC, FD, F1, 8A, 8B FA: IS, Cl.I, II, III, NI FC: DIP FD: NI F1: FM XP + IS 8A: FM/CSA XP + IS + ATEX Ex d + Ex i 8B: FM/CSA XP + IS
b	Electronic 1, 2, 3, 4 1: 4-20mA; 960009151 or 960009542 2: 4-20mA HART; 960009151 or 960009542 3: Profibus PA; 960014201 or 960014213 4: Foundation Fieldbus; 960014201 or 960014213
c	Display 1, 2 1: LCD, Push button 2: without LCD
d	Enclosure A, B, E, F

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	A: F30 alu B: F30 alu, window cover E: F30 stainless steel F: F30 Stainless steel, window cover
e	Electrical connections: different electrical connections, any single letter or number.
f	Nominal Pressure: pressure ranges up to 160bar, any single letter or number
g	Sensor Pressure Range: differential pressure ranges up to 40 bar, any dual letter/number combination
h	Accuracy: any single letter or number
i	Calibration units: any single letter or number
k	Process connection: any triple letter/number combinations representing standard industrial process connections
l	Material diaphragm: any single letter or number
m	Fill oil: any single letter or number
n	Sealing: any single letter or number
+	Separator symbol: only used when options follow
o	Language: any dual letter or none
p	Calibration: any dual letter/number combination or none
q	Service: any dual letter/number combination or none
r	Test protocol: any dual letter/number combination or none
s	Additional approvals: LA, LE, LF, LG, LH, LI, LQ, LR, LS, LW or none LA: SIL declaration (not FM Approvals verified) LE, LF, LG, LH, LI: marine certificate (not FM Approvals verified) LQ, LR, LS: potable water approval (not FM Approvals verified) LW: material certificate
t	Accessories, mounted: non-electrical accessories, e.g. valve, water siphon, any dual letter/number combination or none
u	Accessories enclosed: any dual letter/number combination or none
v	Alternative cover seal any dual letter / number combination or none
w	Software version: any dual letter/number combination or none
x	Customer specific marking: any dual letter/number combination or none

Cerabar M PMC51- abcdefghijkl+mnopqrstuv

	<i>Temperature class</i>	<i>Ambient temperature</i>	<i>Process temperature</i>
T6		$-50^{\circ}\text{C} \leq T_a \leq 40^{\circ}\text{C}$	$\leq 80^{\circ}\text{C}$
T4		$-50^{\circ}\text{C} \leq T_a \leq 70^{\circ}\text{C}$	$\leq 120^{\circ}\text{C}$

a	Approval: FA, FC, FD, 8C FA: IS, CI I, II, III, NI FC: DIP FD: NI 8C: FM IS combined with CSA IS + ATEX Ex ia
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b	Electronic 1, 2, 3, 4 1: 4-20mA; 960009152 2: 4-20mA HART; 960009152 3: Profibus PA; 960014202 4: Foundation Fieldbus; 960014202
c	Display 1, 2 1: LCD, Push button 2: without LCD
d	Enclosure I, J, Q, R, S I: F31 alu J: F31 alu, window cover glass Q: F15 SS plate R: F15 SS plate with window cover glass S: F15 SS plate with window cover plastic
e	Electrical connections: different electrical connections, any single letter or number
f	Pressure range: pressure ranges up to 40bar, any dual letter/number combination
g	Accuracy: any single letter or number
h	Calibration units: any single letter or number
i	Process connection: any triple letter/number combinations representing standard industrial thread connections, flanges and sanitary connections
k	Material sealing: any single letter or number
+	Separator symbol: only used when options follow
l	Language: any dual letter or none
m	Calibration: any dual letter/number combination or none
n	Service: any dual letter/number combination or none
o	Test protocol: any dual letter/number combination or none
p	Additional approvals: LA, LE, LF, LG, LH, LI, LQ, LR, LS, LW or none LA: SIL declaration (not FM Approvals verified) LE, LF, LG, LH, LI: marine certificate (not FM Approvals verified) LQ, LR, LS: potable water approval (not FM Approvals verified) LW: material certificate
q	Separate housing: any dual letter/number combination or none
r	Accessories, mounted: non-electrical accessories, e.g. valve, water siphon, any dual letter/number combination or none
s	Accessories enclosed: any dual letter/number combination or none
t	Alternative cover seal any dual letter / number combination or none
u	Software version: any dual letter/number combination or none
v	Customer specific marking: any dual letter/number combination or none

Cerabar M PMP51- abcdefghikl+mnopqrstuvw

<i>Temperature class</i>	<i>Ambient temperature</i>	<i>Process temperature</i>
T6	-50°C ≤ Ta ≤ 40°C	≤ 80°C
T4	-50°C ≤ Ta ≤ 70°C	≤ 120°C

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a	Approval: FA, FC, FD, F1, 8A, 8B FA: IS, Cl.I, II, III, NI FC: DIP FD: NI F1: FM XP + IS 8A: FM/CSA XP + IS + ATEX Ex d + Ex i 8B: FM/CSA XP + IS
b	Electronic 1, 2,3 4 1: 4-20mA; 960009152 or 960009543 2: 4-20mA HART; 960009152 or 960009543 3: Profibus PA; 960014202 or 960014214 4: Foundation Fieldbus; 960014202 or 960014214
c	Display 1, 2 1: LCD, Push button 2: without LCD
d	Enclosure I, J, Q, R, S I: F31 alu J: F31 alu, window cover glass Q: F15 SS plate R: F15 SS plate with window cover glass S: F15 SS plate with window cover plastic
e	Electrical connections: different electrical connections, any single letter or number.
f	Pressure range: pressure ranges up to 400bar, any dual letter/number combination
g	Accuracy: any single letter or number
h	Calibration units: any single letter or number
i	Process connection: any triple letter/number combinations representing standard industrial thread connections, and flanges; sanitary connections only for non XP versions (a= FA, FC, FD)
k	Material diaphragm coating: any single letter or number
l	Fill oil: any single letter or number
+	Separator symbol: only used when options follow
m	Language: any dual letter or none
n	Calibration: any dual letter/number combination or none
o	Service: any dual letter/number combination or none
p	Test protocol: any dual letter/number combination or none
q	Additional approvals: LA, LE, LF, LG, LH, LI, LQ, LR, LS, LW or none LA: SIL declaration (not FM Approvals verified) LE, LF, LG, LH, LI: marine certificate (not FM Approvals verified) LQ, LR, LS: potable water approval (not FM Approvals verified) LW: material certificate
r	Separate housing: any dual/ letter number combination or none
s	Accessories, mounted: non-electrical accessories, e.g. valve, water siphon, any dual letter/number combination or none
t	Accessories enclosed: any dual letter/number combination or none
u	Alternative cover seal any dual letter / number combination or none

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v	Software version: any dual letter/number combination or none
w	Customer specific marking: any dual letter/number combination or none

Cerabar M Pressure Transmitter PMP55- abcdefghiklm+nopqrstuvwxy

Temperature class	Ambient temperature	Process temperature
T6	-50°C ≤ Ta ≤ 40°C	≤ 80°C
T4	-50°C ≤ Ta ≤ 70°C	≤ 120°C

a	Approval: FA, FC, FD, F1, 8A, 8B FA: IS, Cl.I, II, III, NI FC: DIP FD: NI F1: FM XP + IS 8A: FM/CSA XP + IS + ATEX Ex d + Ex i 8B: FM/CSA XP + IS
b	Electronic 1, 2, 3, 4 1: 4-20mA; 960009152 or 960009543 2: 4-20mA HART; 960009152 or 960009543 3: Profibus PA; 960014202 or 960014214 4: Foundation Fieldbus; 960014202 or 960014214
c	Display 1, 2 1: LCD, Push button 2: without LCD
d	Enclosure I, J, Q, R, S I: F31 alu J: F31 alu, window cover glass Q: F15 SS plate R: F15 SS plate with window cover glass S: F15 SS plate with window cover plastic
e	Electrical connections: different electrical connections, any single letter or number.
f	Pressure range: pressure ranges up to 400bar, any dual letter/number combination
g	Accuracy: any single letter or number
h	Calibration units: any single letter or number
i	Process connection: any triple letter/number combinations representing standard industrial process connections
k	Material diaphragm coating: any single letter or number
l	Fill oil: any single letter or number
m	Diaphragm seal connection: any single letter or number
+	Separator symbol: only used when options follow
n	Language: any dual letter or none
o	Calibration: any dual letter/number combination or none
p	Service: any dual letter/number combination or none
q	Test protocol: any dual letter/number combination or none
r	Additional approvals: LA, LE, LF, LG, LH, LI, LQ, LR, LS, LW or none LA: SIL declaration (not FM Approvals verified)

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US Certificate Of Conformity No: FM16US0434

	LE, LF, LG, LH, LI: marine certificate (not FM Approvals verified) LQ, LR, LS: potable water approval (not FM Approvals verified) LW: material certificate
s	Separate housing: any dual/ letter number combination or none
t	Accessories, mounted: non-electrical accessories, e.g. valve, water siphon, any dual letter/number combination or none
u	Accessories enclosed: any dual letter/number combination or none
v	Capillary coating any dual letter or number combination or none
w	Alternative cover seal any dual letter or number combination or none
x	Software version: any dual letter/number combination or none
y	Customer specific marking: any dual letter/number combination or none

Deltapilot M FMB50- abcdefghiklm+nopqrstuvwx

Temperature class	Ambient temperature	Process temperature
T6	-50°C ≤ Ta ≤ 40°C	≤ 80°C
T4	-50°C ≤ Ta ≤ 70°C	≤ 100°C

a	Approval: FA, FC, FD, 8C FA: IS, CI I, II, III, NI FC: DIP FD: NI 8C: FM IS combined with CSA IS + ATEX Ex ia
b	Electronic 1, 2, 3, 4 1: 4-20mA; 960009195 2: 4-20mA HART; 960009195 3: Profibus PA; 960014203 4: Foundation Fieldbus; 960014203
c	Display 1, 2 1: LCD, Push button 2: without LCD
d	Enclosure I, J, Q, R, S I: F31 alu J: F31 alu, window cover glass Q: F15 SS plate R: F15 SS plate with window cover glass S: F15 SS plate with window cover plastic
e	Electrical connections: different electrical connections, any single letter or number.
f	Nominal Pressure: pressure ranges up to 10bar, any single letter or number
g	Accuracy: any single letter or number
h	Calibration units: any single letter or number
i	Process connection: any triple letter/number combinations representing standard industrial process connections
k	Material diaphragm: any single letter or number

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l	Fill oil: any single letter or number
m	Sealing: any single letter or number
+	Separator symbol: only used when options follow
n	Language: any dual letter or none
o	Calibration: any dual letter/number combination or none
p	Service: any dual letter/number combination or none
q	Test protocol: any dual letter/number combination or none
r	Additional approvals: LA, LC, LE, LF, LG, LH, LI, LQ, LR, LS, LW or none LA: SIL declaration (not FM Approvals verified) LC: overfill protection (not FM Approvals verified) LE, LF, LG, LH, LI: marine certificate (not FM Approvals verified) LQ, LR, LS: drinking water certificates (not FM Approvals verified) LW: material certificate
s	Separate Housing: any dual/ letter number combination or none
t	Accessories, mounted: non-electrical accessories, e.g. valve, water siphon, any dual letter/number combination or none
u	Accessories enclosed: any dual letter/number combination or none
v	Alternative cover seal any dual letter or number combination or none
w	Software version: any dual letter/number combination or none
x	Customer specific marking: any dual letter/number combination or none

Deltapilot M Pressure Transmitter FMB51- abcdefghiklm+nopqrstuvwxy

Temperature class	Ambient temperature	Process temperature
T6	-50°C ≤ Ta ≤ 40°C	≤ 80°C
T4	-50°C ≤ Ta ≤ 70°C	≤ 85°C

a	Approval: FA, FC, FD, 8C FA: IS, CI I, II, III, NI FC: DIP FD: NI 8C: FM IS combined with CSA IS + ATEX Ex ia
b	Electronic 1, 2, 3, 4 1: 4-20mA; 960009195 2: 4-20mA HART; 960009195 3: Profibus PA; 960014203 4: Foundation Fieldbus; 960014203
c	Display 1, 2 1: LCD, Push button 2: without LCD
d	Enclosure I, J, Q, R, S I: F31 alu J: F31 alu, window cover glass Q: F15 SS plate R: F15 SS plate with window cover glass S: F15 SS plate with window cover plastic

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e	Electrical connections: different electrical connections, any single letter or number.
f	Pressure range: pressure ranges up to 10bar, any single letter or number
g	Accuracy: any single letter or number
h	Calibration units: any single letter or number
i	Probe connections: any triple letter or number representing rod length and material
k	Process connection: any triple letter/number combinations representing standard industrial threaded connections, flanges and sanitary connections
l	Material diaphragm: any single letter or number
m	Fill oil: any single letter or number
n	Sealing: any single letter or number
+	Separator symbol: only used when options follow
o	Language: any dual letter or none
p	Calibration: any dual letter/number combination or none
q	Service: any dual letter/number combination or none
r	Test protocol: any dual letter/number combination or none
s	Additional approvals: LA, LC, LE, LF, LG, LH, LI, LQ, LR, LS, LW or none LA: SIL declaration (not FM Approvals verified) LC: overfill protection (not FM Approvals verified) LE, LF, LG, LH, LI: marine certificate (not FM Approvals verified) LQ, LR, LS: drinking water certificates (not FM Approvals verified) LW: material certificate
t	Separate Housing any dual letter / number combination or none
u	Accessories, mounted: non-electrical accessories, e.g. valve, water siphon, any dual letter/number combination or none
v	Accessories enclosed: any dual letter/number combination or none
w	Alternative cover seal any dual letter or number combination or none
x	Software version: any dual letter/number combination or none
y	Customer specific marking: any dual letter/number combination or none

Deltapilot M Pressure Transmitter FMB52- abcdefghiklm+nopqrstuvwxy

Temperature class	Ambient temperature	Process temperature
T6	-50°C ≤ Ta ≤ 40°C	≤ 80°C
T4	-50°C ≤ Ta ≤ 70°C	≤ 85°C

a	Approval: FE, 8C FE: IS, CI I, II, III 8C: FM IS combined with CSA IS + ATEX Ex ia
b	Electronic 1, 2, 3, 4 1: 4-20mA; 960009195 2: 4-20mA HART; 960009195 3: Profibus PA; 960014203 4: Foundation Fieldbus; 960014203

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c	Display 1, 2 1: LCD, Push button 2: without LCD
d	Enclosure I, J, Q, R, S I: F31 alu J: F31 alu, window cover glass Q: F15 SS plate R: F15 SS plate with window cover glass S: F15 SS plate with window cover plastic
e	Electrical connections: different electrical connections, any single letter or number.
f	Pressure range: pressure ranges up to 10bar, any single letter or number
g	Accuracy: any single letter or number
h	Calibration units: any single letter or number
i	Probe connections: any dual letter or number representing rod length and material
k	Process connection: any triple letter/number combinations representing standard industrial threaded connections, flanges and sanitary connections
l	Material diaphragm: any single letter or number
m	Fill oil: any single letter or number
n	Sealing: any single letter or number
+	Separator symbol: only used when options follow
o	Language: any dual letter or none
p	Calibration: any dual letter/number combination or none
q	Service: any dual letter/number combination or none
r	Test protocol: any dual letter/number combination or none
s	Additional approvals: LA, LC, LE, LF, LG, LH, LI, LQ, LR, LS, LW or none LA: SIL declaration (not FM Approvals verified) LC: overfill protection (not FM Approvals verified) LE, LF, LG, LH, LI: marine certificate (not FM Approvals verified) LQ, LR, LS: drinking water certificates (not FM Approvals verified) LW: material certificate
t	Separate Housing any dual letter / number combination or none
u	Accessories, mounted: non-electrical accessories, e.g. valve, water siphon, any dual letter/number combination or none
v	Accessories enclosed: any dual letter/number combination or none
w	Alternative cover seal any dual letter or number combination or none
x	Software version: any dual letter/number combination or none
y	Customer specific marking: any dual letter/number combination or none

Deltapilot M Pressure Transmitter FMB53- abcdefghiklm+nopqrstuvv

Temperature class	Ambient temperature	Process temperature
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US Certificate Of Conformity No: FM16US0434

T6	-50°C ≤ Ta ≤ 40°C	≤ 80°C
T4	-50°C ≤ Ta ≤ 70°C	≤ 80°C

a	Approval: FE, 8C FE: IS, CI I, II, III 8C: FM IS combined with CSA IS + ATEX Ex ia
b	Electronic 1, 2, 3, 4 1: 4-20mA; 960009195 2: 4-20mA HART; 960009195 3: Profibus PA; 960041203 4: Foundation Fieldbus; 960041203
c	Display 1, 2 1: LCD, Push button 2: without LCD
d	Enclosure I, J, Q, R, S I: F31 alu J: F31 alu, window cover glass Q: F15 SS plate R: F15 SS plate with window cover glass S: F15 SS plate with window cover plastic
e	Electrical connections: different electrical connections, any single letter or number.
f	Pressure Range: pressure ranges up to 10bar, any single letter or number
g	Accuracy: any single letter or number
h	Calibration units: any single letter or number
i	Probe connection: any dual letter or number representing cable length and material
k	Material diaphragm coating: any single letter or number
l	Fill oil: any single letter or number
m	Sealing: any single letter or number
+	Separator symbol: only used when options follow
n	Language: any dual letter or none
o	Calibration: any dual letter/number combination or none
p	Service: any dual letter/number combination or none
q	Test protocol: any dual letter/number combination or none
r	Additional approvals: LA, LC, LE, LF, LG, LH, LI, LQ, LR, LS, LW or none LA: SIL declaration (not FM Approvals verified) LC: overfill protection (not FM Approvals verified) LE, LF, LG, LH, LI: marine certificate (not FM Approvals verified) LQ, LR, LS: drinking water certificates (not FM Approvals verified) LW: material certificate
s	Accessories, mounted: non-electrical accessories, e.g. valve, water siphon, any dual letter/number combination or none
t	Accessories enclosed: any dual letter/number combination or none
u	Alternative cover seal any dual letter or number combination or none

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

FM Approvals LLC. 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA
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SCHEDULE



US Certificate Of Conformity No: FM16US0434

v	Software version: any dual letter/number combination or none
w	Customer specific marking: any dual letter/number combination or none

13. Specific Conditions of Use:

For installation instructions and the Temperature Class (*), which applies to specific Models, ambient temperature (Ta), and process medium temperature (Tmed), refer to Control Drawing.

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
26 th March 2009	Original Issue.
1 st February 2017	<u>Supplement 7:</u> Report Reference: – 3060617 dated 1 st February 2017 Description of the Change: Updates to circuitry for use with CARMAN ASIC, addition of new display VU340-2, updated standards to latest edition as applicable, and minor drawing changes.

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