



Certificate of compliance PROTRAC.KX



Document ID: 39376



VEGA

WARNING EXPLOSION HAZARD
SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR CLASS I, DIVISION 2
DO NOT REPLACE UNLESS POWER HAS BEEN SWITCHED OFF

1 Certificate



Certificate of Compliance

Certificate: 2327401 (LR 23257)

Master Contract: 153855

Project: 2687607

Date Issued: January 3, 2014

Issued to: VEGA Americas, Inc.

4241 Allendorf Dr
Cincinnati, OH 45209
USA

Attention: Nick Ilchovski

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.



Jelena Dzeletovic

Issued by: Jelena Dzeletovic

PRODUCTS

CLASS 2258 02 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations

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

CLASS 2258-02 - PROCESS CONTROL EQUIPMENT – For Hazardous Locations

CLASS 2258-82 - PROCESS CONTROL EQUIPMENT – For Hazardous Locations - Certified to US Standards

Class I Division 2 Groups A, B, C, and D; Class II Division 2 Groups F and G; Class III, T6, Encl. Type 4X

Protrac Series Nuclear Scintillation Detectors, nuclear gauge instruments used for process measurement and control applications for use in hazardous locations; Ambient Temperature -50°C to +60°C.

Suitable for installation in Class I, II, III, Division 2, Groups A, B, C, D, E, F and G; T6; Ta = 60°C; with intrinsically safe outputs when installed per drawing GE2779 and used with the following entity parameters:

HART Electronics Option (Electronics B or L):



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IS current loop output with the parameters (terminals 1[+], 2 [-] in the lateral chamber):

$U_o = 22.16V$, $I_o = 111.9mA$, $P_o = 620.03mW$, C_i negligible, L_i negligible

Profibus PA (Electronics G) or Foundation Fieldbus (Electronics D) Electronic Option:

Intrinsically safe communication interface for connection to an intrinsically safe H1 voltage supply (terminals 1, 2 [Signal+Power] in the lateral chamber):

Ignition protection type intrinsic safety Ex ia IIC

Maximum values: $U_i = 17.5V$, $I_i = 500mA$, $P_i = 5.5W$, C_i negligible, $L_i < 5\mu H$

The instrument is suitable for connection to a Fieldbus system according to the FISCO model (IEC 60079-11:2011,

or

$U_i = 24V$, $I_i = 250mA$, $P_i = 1.2W$, C_i negligible, $L_i < 5\mu H$

Display- and adjustment output (terminals 5,6,7,8 in the lateral chamber):

$U_o = 6,0V$, $I_o = 209.7mA$, $P_o = 314.6mW$, C_i negligible, L_i negligible

Model FIBERTRAC FT31 xy a b c d e f g

Where:

xy = Approval: KX

a = Version / Ambient Temperature:

1 Standard / -20 ... +50°C

b = Electronics:

B 4-wire 4 20 mA/HART (intrinsically safe output)

A 4-wire 4 20 mA/HART (non-intrinsically safe output)

L 4-wire 4 20 mA/HART (intrinsically safe output) with SIL qualification

I 4-wire 4 20 mA/HART (non-intrinsically safe output) with SIL qualification

C 4-wire Foundation Fieldbus (non-intrinsically safe output)

D 4-wire Foundation Fieldbus (intrinsically safe output)



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E 4-wire Profibus PA (non-intrinsically safe output)

G 4-wire Profibus PA (intrinsically safe output)

c = Housing / Protection:

D Aluminum / IP66/IP67

A Aluminum with 316L conduit mount / IP66/IP67

S Aluminum / IP66/IP67 (Special Color)

R Aluminum with conduit mount / IP66/IP67 (Special Color)

W Type 316 Stainless Steel

V Type Stainless Steel with 316L Conduit Mount / IP 66/67

d = Cable Entry / Plug Connection:

N 1/2 NPT / without

M M20x15 / without

e = Indicating/adjustment module (PLICSCOM):

X Without

B Side mounted with backlight

C Side mounted without backlight

f = Additional Equipment: (1 digit representing accessories)

X Without

g = Length (3 Digit Code Representing Detector Length)

Model FIBERTRAC FT32 xy a b c d e f g

Where:

xy = Approval: KX

a = Version/Ambient Temperature:

1 Standard/-20 ... +50°C

b = Electronics:



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- B 4-wire 4 20 mA/HART (intrinsically safe output)
- A 4-wire 4 20 mA/HART (non-intrinsically safe output)
- L 4-wire 4 20 mA/HART (intrinsically safe output) with SIL qualification
- I 4-wire 4 20 mA/HART (non-intrinsically safe output) with SIL qualification
- C 4-wire Foundation Fieldbus (non-intrinsically safe output)
- D 4-wire Foundation Fieldbus (intrinsically safe output)
- E 4-wire Profibus PA (non-intrinsically safe output)
- G 4-wire Profibus PA (intrinsically safe output)

c = Housing/Protection:

- D Aluminum /IP66/IP67
- A Aluminum with 316L conduit mount /IP66/IP67
- S Aluminum /IP66/IP67 (Special Color)
- R Aluminum with conduit mount /IP66/IP67 (Special Color)
- W Type 316 Stainless Steel
- V Type Stainless Steel with 316L Conduit Mount / IP 66/67

d = Cable Entry/Plug Connection:

- N 1/22 NPT/without
- M M20x1.5/without

e = Indicating/adjustment module (PLICSCOM):

- X Without
- B Side mounted with backlight
- C Side mounted without backlight

f = Additional Equipment: (1 digit representing accessories)

- X Without

g = Length (3 Digit Code Representing Detector Length)



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Model SOLITRAC ST31 xy a b c d e f g

Where:

xy = Approval: KX

a = Version / Ambient Temperature:

- 1 Standard / -40 ... +60°C
- 2 Low temperature range / -50 ... +60°C

b = Electronics:

- B 4-wire 4 20 mA/HART (intrinsically safe output)
- A 4-wire 4 20 mA/HART (non-intrinsically safe output)
- L 4-wire 4 20 mA/HART (intrinsically safe output) with SIL qualification
- I 4-wire 4 20 mA/HART (non-intrinsically safe output) with SIL qualification
- C 4-wire Foundation Fieldbus (non-intrinsically safe output)
- D 4-wire Foundation Fieldbus (intrinsically safe output)
- E 4-wire Profibus PA (non-intrinsically safe output)
- G 4-wire Profibus PA (intrinsically safe output)

c = Housing / Protection:

- D Aluminum / IP66/IP67
- S Aluminum / IP66/IP67 (Special Color)
- W Type 316 Stainless Steel

d = Cable Entry / Plug Connection:

- N 1/2 NPT / without
- M M20x15 / without

e = Indicating/adjustment module (PLICSCOM):

- X Without
- B Side mounted with backlight



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C Side mounted without backlight

f = Additional Equipment: (1 digit representing accessories)

X Without

g = Length (3 Digit Code Representing Detector Length)

Model MINITRAC MT31 xy a b c d e f

Where:

xy = Approval: KX

a = Version / Ambient Temperature:

1 Standard / -40 ... +60°C

2 Low temperature range / -50 ... +60°C

b = Electronics:

B 4-wire 4 20 mA/HART (intrinsically safe output)

A 4-wire 4 20 mA/HART (non-intrinsically safe output)

L 4-wire 4 20 mA/HART (intrinsically safe output) with SIL qualification

I 4-wire 4 20 mA/HART (non-intrinsically safe output) with SIL qualification

C 4-wire Foundation Fieldbus (non-intrinsically safe output)

D 4-wire Foundation Fieldbus (intrinsically safe output)

E 4-wire Profibus PA (non-intrinsically safe output)

G 4-wire Profibus PA (intrinsically safe output)

c = Housing / Protection:

D Aluminum / IP66/IP67

S Aluminum / IP66/IP67 (Special Color)

W Type 316 Stainless Steel

d = Cable Entry / Plug Connection:

N 1/2 NPT / without



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M M20x15 / without

c = Indicating/adjustment module (PLICSCOM):

X Without

B Side mounted with backlight

C Side mounted without backlight

f = Additional Equipment: (1 digit representing accessories)

X Without

S Internal Lead Shielding

Model MINITRAC MT32 xy a b c d e f

Where:

xy = Approval: KX

a = Version / Ambient Temperature:

1 Standard / -40 ... +60°C

2 Low temperature range / -50 ... +60°C

b = Electronics:

B 4-wire 4 20 mA/HART (intrinsically safe output)

A 4-wire 4 20 mA/HART (non-intrinsically safe output)

L 4-wire 4 20 mA/HART (intrinsically safe output) with SIL qualification

I 4-wire 4 20 mA/HART (non-intrinsically safe output) with SIL qualification

C 4-wire Foundation Fieldbus (non-intrinsically safe output)

D 4-wire Foundation Fieldbus (intrinsically safe output)

E 4-wire Profibus PA (non-intrinsically safe output)

G 4-wire Profibus PA (intrinsically safe output)

c = Housing / Protection:

D Aluminum / IPSS/IP67



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S Aluminum / IPSS/IPS7 (Special Color)

W Type 316 Stainless Steel

d = Cable Entry / Plug Connection:

N 1/2 NPT/ without

M M20x1.5/ without

e = Indicating/adjustment module (PLICSCOM):

X Without

B Side mounted with backlight

C Side mounted without backlight

f = Additional Equipment: (1 digit representing accessories)

X Without

Model WEIGHTRAC WT31 xyabedefghij

Where:

xy = Approval: KX

a = Version / Ambient Temperature:

1 Standard / -40...+60°C

2 Low temperature range / -50...+60°C

b = Electronics:

B 4-wire 4 20 mA/HART (intrinsically safe output)

A 4-wire 4 20 mA/HART (non-intrinsically safe output)

C 4-wire Foundation Fieldbus (non-intrinsically safe output)

D 4-wire Foundation Fieldbus (intrinsically safe output)

E 4-wire Profibus PA (non-intrinsically safe output)

G 4-wire Profibus PA (intrinsically safe output)

c = Housing / Protection:



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D Aluminum / IP66/IP67

S Aluminum / IP66/IP67 (Special Color)

W Type 316 Stainless Steel

d = Cable Entry / Plug Connection:

N 1/2 NPT / without

M M20x1.5 / without

e = Indicating/adjustment module (PLICSCOM):

X Without

B Side mounted with backlight

C Side mounted without backlight

f = Source Holder Configuration (1digit code gamma source holder type)

X No Source Holder Required - Plain Cross Beam

g = Isotope / activity selection (1digit code representing isotope and activity)

X Without

h = Additional Equipment (1digit representing accessories)

X Without

i = Frame Construction (1digit code representing frame material)

j = Conveyor Width / Frame Upright Height (2 digit code representing frame size)

Model WEIGHTRAC WT32 xyabdefghij

Where:

xy = Approval: KX

a = Version/Ambient Temperature:

1 Standard/-40...+50°C

2 Low temperature range/-50... +50°C

b = Electronics:



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- B 4-wire 4 20 mA/HART (intrinsically safe output)
- A 4-wire 4 20 mA/HART (non-intrinsically safe output)
- C 4-wire Foundation Fieldbus (non-intrinsically safe output)
- D 4-wire Foundation Fieldbus (intrinsically safe output)
- E 4-wire Profibus PA (non-intrinsically safe output)
- G 4-wire Profibus PA (intrinsically safe output)

c = Housing/Protection:

- D Aluminum/IP66/IP67
- S Aluminum/IP66/IP67 (Special Color)
- W Type 316 Stainless Steel

d = Cable Entry/Plug Connection:

- N 1/2NPT/without
- M M20x1.5/without

e = Indicating/adjustment module (PLICSCOM):

- X Without
- B Side mounted with backlight
- C Side mounted without backlight

f = Source Holder Configuration (1 digit code gamma source holder type)

- X No Source Holder Required - Plain Cross Beam

g = Isotope/activity selection (1 digit code representing isotope and activity)

- X Without

h = Additional Equipment: (1 digit code representing accessories)

- X Without

i = Frame Construction (1 digit code representing frame material)

j = Conveyor Width / Frame Upright Height (2 digit code representing frame size)



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Model POINTRAC PT31 xybcdefg

Where:

xy = Approval: KX

a = Version / Ambient Temperature:

- 1 Standard / -40 ... +60°C
- 2 Low temperature range / -50 ... +60°C

b = Electronics:

- A 4-wire 4 16 mA/HART (non-intrinsically safe output)
- B 4-wire 4 16 mA/HART (intrinsically safe output)
- L 4-wire 4 20 mA/HART (intrinsically safe output) with SIL qualification
- I 4-wire 4 20 mA/HART (non-intrinsically safe output) with SIL qualification
- C 4-wire Foundation Fieldbus (non-intrinsically safe output)
- D 4-wire Foundation Fieldbus (intrinsically safe output)
- E 4-wire Profibus PA (non-intrinsically safe output)
- G 4-wire Profibus PA (intrinsically safe output)

c = Housing / Protection:

- D Aluminum / IP66/IP67
- S Aluminum / IP66/IP67 (Special Color)
- W Type 316 Stainless Steel

d = Cable Entry / Plug Connection:

- N 1/2 NPT

e = Indicating/adjustment module (PLICSCOM):

- X Without
- B Side mounted with backlight
- C Side mounted without backlight



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f = Additional Equipment: (1 digit representing accessories)

X Without

g = Length (3 Digit Code Representing Detector Length)

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

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

Class I, Div 1 Groups A, B, C, D; Class II, Div 1, Groups E, F, G; Class III, T6. Encl. Type 4X

Class I, Zone 0, Group IIC

Protrac Series Nuclear Scintillation Detectors, nuclear gauge instruments used for process measurement and control applications for use in hazardous locations; Ambient Temperature -50°C to +60°C.

Explosion proof for Class I, Division 1, Groups A, B, C and D; with intrinsically safe outputs for Class I, II, III, Division 1, Groups A, B, C, D, E, F when installed per drawing GE2779 and used with the following entity parameters:

HART Electronics Option (Electronics B or L):

IS current loop output with the parameters (terminals 1[+], 2 [-] in the lateral chamber):

U_o = 22.16V, I_o = 111.9mA, P_o = 620.03mW, C_i negligible, L_i negligible

Profibus PA (Electronics G) or Foundation Fieldbus (Electronics D) Electronic Option:

Intrinsically safe communication interface for connection to an intrinsically safe H1 voltage supply (terminals 1, 2 [Signal+Power] in the lateral chamber):

Ignition protection type intrinsic safety Ex ia IIC

Maximum values: U_i = 17.5 V, I_i = 500 mA, P_i = 5.5 W, C_i negligible, L_i < 5μH

The instrument is suitable for connection to a Fieldbus system according to the FISCO model (IEC 60079-11:2011,

or

U_i = 24 V, I_i = 250 mA, P_i = 1.2 W, C_i negligible, L_i < 5μH

Display- and adjustment output (terminals 5,6,7,8 in the lateral chamber):



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$U_o = 6,0V$, $I_o = 209.7mA$, $P_o = 314.6mW$, C_i negligible, L_i negligible

Entity Parameters; U_o (Voc) = 17.5 V, I_o (Isc) = 221.2 mA, $P_o = 0.415$ W, For Display only

Class I, Zone 0, Group IIC C_o (Ca) = 11.1 μF L_o (La) = 0,7 mH

Class I, Division 1, Groups A & B

Class I, Zone 0, Group IIB C_o (Ca) = 174 μF L_o (La) = 3.0 mH

Class I & II, Division 1, Groups C & E

Class I, Zone 0, Group IIA C_o (Ca) = 1000 μF L_o (La) = 5.7 mH

Class I, II, III Division 1, Groups D, F, & G

*Entity Parameters; U_o (Voc) = 22.2 V, I_o (Isc) = 112 mA, $P_o = 620$ mW, 4-20mA Loop

HART Electronics Option (Electronics B or L):

IS current loop output with the parameters (terminals 1[+], 2 [-] in the lateral chamber):

$U_o = 22.16V$, $I_o = 111.9mA$, $P_o = 620.03mW$, C_i negligible, L_i negligible

Class I, Zone 0, Group IIC C_o (Ca) = 0.16 μF L_o (La) = 2.8 mH

Class I, Division 1, Groups A & B

Class I, Zone 0, Group IIB C_o (Ca) = 1.11 μF L_o (La) = 12 mH

Class I & II, Division 1, Groups C & E

Class I, Zone 0, Group IIA C_o (Ca) = 4.08 μF L_o (La) = 23 mH

Electrical data for the optional Profibus PA and Foundation Fieldbus interface circuit (ia)

Terminals 1 and 2

$U_i = 17.5$ V; $I_i = 500$ mA; $P_i = 5.5W$; C_i negligible; $L_i \leq 5$ mH

The instrument (FISCO FIELD DEVICE) is suitable for connection to a Fieldbus system according to the FISCO model (EN 60079-11 :2012), e.g. Profibus PA or Foundation Fieldbus.

or

$U_i = 24$ V; $I_i = 250$ mA; $P_i = 1,2W$; C_i negligible; Effective internal inductance: $L_i \leq 5$ mH

Model FIBERTRAC FT31 xyabcdefg

Where:



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xy = Approval: KG

a = Version / Ambient Temperature:

I Standard / -20 ... +50°C

b = Electronics:

- B 4-wire 4...20 mA/HART (intrinsically safe output)
- A 4-wire 4...20 mA/HART (non-intrinsically safe output)
- L 4-wire 4 20 mA/HART (intrinsically safe output) with SIL qualification
- I 4-wire 4 20 mA/HART (non-intrinsically safe output) with SIL qualification
- C 4-wire Foundation Fieldbus (non-intrinsically safe output)
- D 4-wire Foundation Fieldbus (intrinsically safe output)
- E 4-wire Profibus PA (non-intrinsically safe output)
- G 4-wire Profibus PA (intrinsically safe output)

c = Housing / Protection:

- D Aluminum / IP66/IP67
- A Aluminum with 316L conduit mount / IP66/IP67
- S Aluminum / IP66/IP67 (Special Color)
- R Aluminum with conduit mount / IP66/IP67 (Special Color)
- W Type 316 Stainless Steel

d = Cable Entry / Plug Connection:

- N 1/2 NPT / without
- M M20x15 / without

e = Indicating/adjustment module (PLICSCOM):

- X Without
- B Side mounted with backlight
- C Side mounted without backlight



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f = Additional Equipment: (1 digit representing accessories)

X Without

g = Length (3 Digit Code Representing Detector Length)

Model FIBERTRAC FT32 xyabcdefg

Where:

xy = Approval: KG

a = Version/Ambient Temperature:

1 Standard/-20 ... +50°C

b = Electronics:

B 4-wire 4...20 mA/HART (intrinsically safe output)

A 4-wire 4...20 mA/HART (non-intrinsically safe output)

L 4-wire 4 20 mA/HART (intrinsically safe output) with SIL qualification

I 4-wire 4 20 mA/HART (non-intrinsically safe output) with SIL qualification

C 4-wire Foundation Fieldbus (non-intrinsically safe output)

D 4-wire Foundation Fieldbus (intrinsically safe output)

E 4-wire Profibus PA (non-intrinsically safe output)

G 4-wire Profibus PA (intrinsically safe output)

c = Housing/Protection:

D Aluminum /IP66/IP67

A Aluminum with 316L conduit mount /IP66/IP67

S Aluminum /IP66/IP67 (Special Color)

R Aluminum with conduit mount /IP66/IP67 (Special Color)

W Type 316 Stainless Steel

d = Cable Entry/Plug Connection:

N 1/22 NPT/without



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M M20x1.5/without

c = Indicating/adjustment module (PLICSCOM):

X Without

B Side mounted with backlight

C Side mounted without backlight

f = Additional Equipment: (1 digit representing accessories)

X Without

g = Length (3 Digit Code Representing Detector Length)

Model SOLITRAC ST31 xybcdefg

Where:

xy = Approval: KG

a = Version / Ambient Temperature:

1 Standard / -40 ... +60°C

2 Low temperature range / -50 ... +60°C

b = Electronics:

B 4-wire 4...20 mA/HART (intrinsically safe output)

A 4-wire 4...20 mA/HART (non-intrinsically safe output)

L 4-wire 4 20 mA/HART (intrinsically safe output) with SIL qualification

I 4-wire 4 20 mA/HART (non-intrinsically safe output) with SIL qualification

C 4-wire Foundation Fieldbus (non-intrinsically safe output)

D 4-wire Foundation Fieldbus (intrinsically safe output)

E 4-wire Profibus PA (non-intrinsically safe output)

G 4-wire Profibus PA (intrinsically safe output)

c = Housing / Protection:

D Aluminum / IP66/IP67



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S Aluminum / IP66/IP67 (Special Color)

W Type 316 Stainless Steel

d = Cable Entry / Plug Connection:

N 1/2 NPT / without

M M20x15 / without

e = Indicating/adjustment module (PLICSCOM):

X Without

B Side mounted with backlight

C Side mounted without backlight

f = Additional Equipment: (1 digit representing accessories)

X Without

g = Length (3 Digit Code Representing Detector Length)

Model MINITRAC MT31 xyabcdef

Where:

xy = Approval: KG

a = Version / Ambient Temperature:

1 Standard / -40 ... +60°C

2 Low temperature range / -50 ... +60°C

b = Electronics:

B 4-wire 4...20 mA/HART (intrinsically safe output)

A 4-wire 4...20 mA/HART (non-intrinsically safe output)

L 4-wire 4 20 mA/HART (intrinsically safe output) with SIL qualification

I 4-wire 4 20 mA/HART (non-intrinsically safe output) with SIL qualification

C 4-wire Foundation Fieldbus (non-intrinsically safe output)

D 4-wire Foundation Fieldbus (intrinsically safe output)



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E 4-wire Profibus PA (non-intrinsically safe output)

G 4-wire Profibus PA (intrinsically safe output)

c = Housing / Protection:

D Aluminum / IP66/IP67

S Aluminum / IP66/IP67 (Special Color)

W Type 316 Stainless Steel

d = Cable Entry / Plug Connection:

N 1/2 NPT / without

M M20x15 / without

e = Indicating/adjustment module (PLICSCOM):

X Without

B Side mounted with backlight

C Side mounted without backlight

f = Additional Equipment: (1 digit representing accessories)

X Without

S Internal Lead Shielding

Model MINITRAC MT32 xyabcdef

Where:

xy = Approval: KG

a = Version / Ambient Temperature:

1 Standard / -40 ... +60°C

2 Low temperature range / -50 ... +60°C

b = Electronics:

B 4-wire 4...20 mA/HART (intrinsically safe output)

A 4-wire 4...20 mA/HART (non-intrinsically safe output)



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- L 4-wire 4 20 mA/HART (intrinsically safe output) with SIL qualification
- I 4-wire 4 20 mA/HART (non-intrinsically safe output) with SIL qualification
- C 4-wire Foundation Fieldbus (non-intrinsically safe output)
- D 4-wire Foundation Fieldbus (intrinsically safe output)
- E 4-wire Profibus PA (non-intrinsically safe output)
- G 4-wire Profibus PA (intrinsically safe output)

c = Housing / Protection:

- D Aluminum / IPSS/IP67
- S Aluminum / IPSS/IPS7 (Special Color)
- W Type 316 Stainless Steel

d = Cable Entry / Plug Connection:

- N 1/2 NPT/ without
- M M20x1.5/ without

e = Indicating/adjustment module (PLICSCOM):

- X Without
- B Side mounted with backlight
- C Side mounted without backlight

f = Additional Equipment: (1 digit representing accessories)

- X Without

Model WEIGHTRAC WT31 xyabedefghij

Where:

xy = Approval: KG

a = Version / Ambient Temperature:

- 1 Standard / -40...+60°C
- 2 Low temperature range / -50...+60°C



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b = Electronics:

- B 4-wire 4..20 mA/HART (intrinsically safe output)
- A 4-wire 4..20 mA/HART (non-intrinsically safe output)
- C 4-wire Foundation Fieldbus (non-intrinsically safe output)
- D 4-wire Foundation Fieldbus (intrinsically safe output)
- E 4-wire Profibus PA (non-intrinsically safe output)
- G 4-wire Profibus PA (intrinsically safe output)

c = Housing / Protection:

- D Aluminum / IP66/IP67
- S Aluminum / IP66/IP67 (Special Color)
- W Type 316 Stainless Steel

d = Cable Entry / Plug Connection:

- N 1/2 NPT / without
- M M20x1.5 / without

e = Indicating/adjustment module (PLICSCOM):

- X Without
- B Side mounted with backlight
- C Side mounted without backlight

f = Source Holder Configuration (1digit code gamma source holder type)

- X No Source Holder Required - Plain Cross Beam

g = Isotope / activity selection (1digit code representing isotope and activity)

- X Without

h = Additional Equipment (1digit representing accessories)

- X Without

i = Frame Construction (1digit code representing frame material)



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j = Conveyor Width / Frame Upright Height (2 digit code representing frame size)

Model WEIGHTRAC WT32 xyabcdefghij

Where:

xy = Approval: KG

a = Version/Ambient Temperature:

- 1 Standard/-40...+50°C
- 2 Low temperature range/-50... +50°C

b = Electronics:

- B 4-wire 4...20 mA/HART (intrinsically safe output)
- A 4-wire 4...20 mA/HART (non-intrinsically safe output)
- C 4-wire Foundation Fieldbus (non-intrinsically safe output)
- D 4-wire Foundation Fieldbus (intrinsically safe output)
- E 4-wire Profibus PA (non-intrinsically safe output)
- G 4-wire Profibus PA (intrinsically safe output)

c = Housing/Protection:

- D Aluminum/IP66/IP67
- S Aluminum/IP66/IP67 (Special Color)
- W Type 316 Stainless Steel

d = Cable Entry/Plug Connection:

- N 1/2NPT/without
- M M20x1.5/without

e = Indicating/adjustment module (PLICSCOM):

- X Without
- B Side mounted with backlight
- C Side mounted without backlight



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f = Source Holder Configuration (1 digit code gamma source holder type)

X No Source Holder Required - Plain Cross Beam

g = Isotope/activity selection (1 digit code representing isotope and activity)

X Without

h = Additional Equipment: (1 digit code representing accessories)

X Without

i = Frame Construction (1 digit code representing frame material)

j = Conveyor Width / Frame Upright Height (2 digit code representing frame size)

Model POINTRAC PT31 xybcdefg

Where:

xy = Approval: KG

a = Version / Ambient Temperature:

1 Standard / -40 ... +60°C

2 Low temperature range / -50 ... +60°C

b = Electronics:

b = Electronics:

A 4-wire 4 16 mA/HART (non-intrinsically safe output)

B 4-wire 4 16 mA/HART (intrinsically safe output)

L 4-wire 4 20 mA/HART (intrinsically safe output) with SIL qualification

I 4-wire 4 20 mA/HART (non-intrinsically safe output) with SIL qualification

C 4-wire Foundation Fieldbus (non-intrinsically safe output)

D 4-wire Foundation Fieldbus (intrinsically safe output)

E 4-wire Profibus PA (non-intrinsically safe output)

G 4-wire Profibus PA (intrinsically safe output)



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c = Housing / Protection:

D Aluminum / IP66/IP67

S Aluminum / IP66/IP67 (Special Color)

W Type 316 Stainless Steel

d = Cable Entry / Plug Connection:

N 1/2 NPT

e = Indicating/adjustment module (PLICSCOM):

X Without

B Side mounted with backlight

C Side mounted without backlight

f = Additional Equipment: (1 digit representing accessories)

X Without

g = Length (3 Digit Code Representing Detector Length)

APPLICABLE REQUIREMENTS

- CSA Std C22.2 No. 0-M91 (R 2006) - General Requirements – Canadian Electrical Code – Part II
- CSA- C22.2 No 0.4-M1982 (R 2006) - Bonding and Grounding of Electrical Equipment
- CSA-C22.2 No. 0.5-M1982 (R 2006) - Threaded Conduit Entries
- CSA-C22.2 No. 25-1966 (R 2004) - Enclosures for Use in Class II Groups E, F, and G Hazardous Locations
- CSA Std C22.2 No. 30-M1986 (R 2003) - Explosion-Proof Enclosures for Use in Class I Hazardous Locations
- CAN/CSA-C22.2 No. 94-M91 (R 2006) - Special Purpose Enclosures
- CSA Std C22.2 No. 213-M1987 (R 2004) - Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations
- CSA Std C22.2 No. 142-M1987 (R 2004) - Process Control Equipment



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CSA C22.2 No. 157-M1992	- Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations
CSA Std C22.2 No. 60079-0: 2002	- Electrical Apparatus for Explosive Gas Atmospheres -Part 0: General Requirements
CSA-C22.2 No. 60529: 2005	- Degrees of protection provided by enclosures (IP Code)
CSA Std C22.2 No. 60079-11: 2002	- Electrical apparatus for explosive by enclosures Part 11: Intrinsic safety "i"
FM Class 3600: 1998	- Electrical Equipment for Use in Hazardous (Classified) Locations, General Requirements
FM Class 3610: 2007	- Intrinsically Safe Apparatus and Apparatus for Use in Class I, II, and III Division 1 and Zone 0 & 1 Hazardous (Classified) Locations
FM Class 3611: 2004	- Nonincendive Electrical Equipment for Use in Class I, and Class II, Division 2 and Class III, Division 1 and 2 Hazardous (classified) locations
FM Class 3810: 2005	- Electrical and Electronic Test, Measuring and Process Control Equipment
ANSI/NEMA 250: 2003	- Enclosures for Electrical Equipment
ANSI/IEC 60529: 2004	- Degrees of protection provided by enclosures (IP Code)

MARKINGS

- CSA monogram.
- Submittor's identification;
- Model designation or equivalent;
- Complete electrical rating;
- Temperature code T4;
- Maximum Working Pressure
- Maximum ambient temperature 60°C
- Entity parameters (For Class I, Division 1 product);
- Applicable hazardous locations designation;
- Date code or equivalent;



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-
- Cautions, warnings and additional markings as may be required;
 - “WARNING - SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR CLASS I, DIVISION 2 AND INTRINSIC SAFETY”
 - “WARNING - OPEN CIRCUIT BEFORE REMOVING COVER or KEEP COVERS TIGHT WHILE CIRCUITS ARE ALIVE.”



Supplement to Certificate of Compliance

Certificate: 2327401

Master Contract: 153855

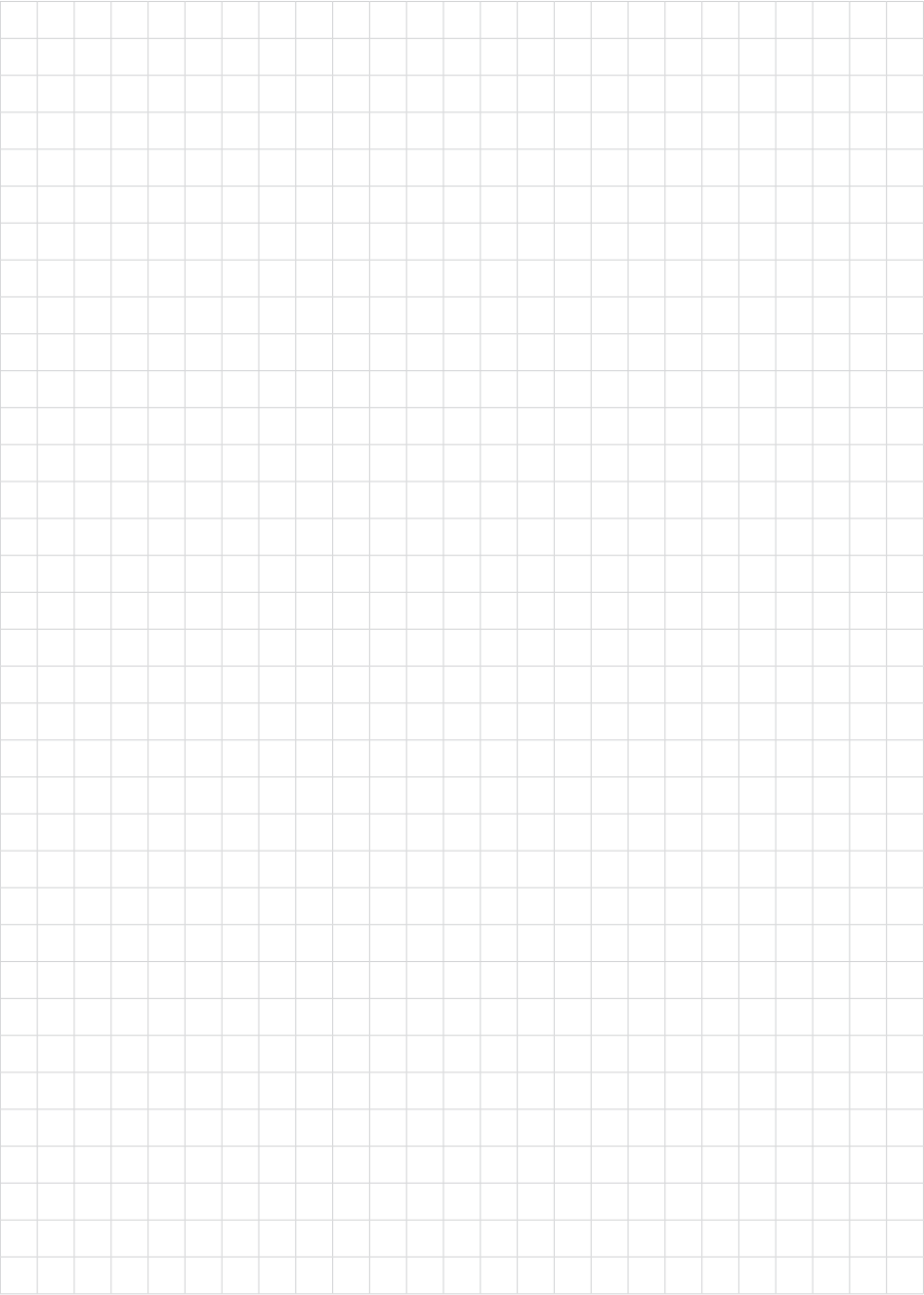
The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Product Certification History

Project	Date	Description
2687607	Jan 3, 2014	Update to include new certified potting material Sylgard 184 Silicone Elastomer.
2633555	Jun 6, 2013	Update to include previous drawing revision in the report.
2600373	Mar 20, 2013	Update to Report 2327401 to add new Profibus/Foundation Fieldbus type electronics.
2562413	Jan 4, 2013	Update to report 2327401 to include testing of 4 new types of plastic material to be used in Protrac feedthroughs.
2488633	Sep 25, 2012	Replacing the plastic filling of the Protrac feedthrough with some new materials.
2467204	Oct 27, 2011	Update of report 2327401 to include model code revision to replace the drawing, to add Internal Lead Shielding and Stainless Steel material.
2443426	Aug 10, 2011	Update of Report 2327401 to include updated drawings and model code revision.
2401661	Mar 10, 2011	Update of repor 2327401 to add 4-20mA intrinsically safe output.
2385320	Jan 19, 2011	Update of Report 2327401 to update housing, feedthrough, ground and model addition.
2327401	Sep 13, 2010	Original Certification.

History

2620442	April 17, 2013	Update to include revised control and label drawing and correction of model code.
2616959	April 15, 2013	Transfer of CSA certificate 2327401 for PROTRAC Series from Vega America (153855) to Vega Germany (153857) and issuing of new certificate under Vega Germany.



Printing date:

VEGA

All statements concerning scope of delivery, application, practical use and operating conditions of the sensors and processing systems correspond to the information available at the time of printing.

Subject to change without prior notice

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