Certificate of Compliance

Certificate:	2354484	**Master Contract:**	153857
Project:	80279712	**Date Issued:**	2026-03-20
Issued to:	**Vega Grieshaber KG** **Am Hohenstein 113** **Schiltach, Baden-Württemberg** **77761** **Germany** **Attention:** Thomas Roming	**Issued by:**	*Cem Kayadibi* Cem Kayadibi

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.

C US

PRODUCTS

Class 2258 03 PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations
Class 2258 04 PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entity - For Hazardous Locations
Class 2258 83 PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations - Certified to US Standards
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
CLASS 2258 84 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations Certified to US Standards

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Ex db [ia Ga] IIC T* Gb
Class I, Zone 1, AEx db [ia Ga] IIC T* Gb
Ex ta [ia Da] IIIC T98°C Da
Ex tb [ia Da] IIIC T98°C Db
Zone 20, AEx ta [ia Da] IIIC T98°C Da
Zone 21, AEx tb [ia Da] IIIC T98°C Db
Class I, Division 1, Groups A, B, C, D T* with Associated Intrinsically Safe connections
Class II, Division 1, Groups E, F, G T*; Class III with Associated Intrinsically Safe connections
Type 4X Enclosure; IP66

Protrac Series Nuclear Scintillation Detectors - Models FIBERTRAC 31, FIBERTRAC 32, SOLITRAC 31, MINITRAC 31, MINITRAC 32, WEIGHTRAC 31, WEIGHTRAC 32, and POINTRAC 31.
Rated: 24 – 230Vac (-15%/+10%), 6VA, 50/60Hz / 24 – 65Vdc (-15%/+10%), 4W
Relay contacts: 250Vac, 3A max.
*T5 / T98°C at -40°C ≤ $T_{ambient}$ ≤ +60°C
*T6 / T85°C at -40°C ≤ $T_{ambient}$ ≤ +46°C
Maximum Process temperature (Tp) = +60°C
Associated Intrinsically Safe interface for Class I, II, III, Division 1, Groups A, B, C, D, E, F, G; Class I, Zone 0, and Zone 20 when installed per drawing GE2779

Model FIBERTRAC 31 model code* FT31.KG a b c d e f g
Where:
a = 1;
b = B, L, D, G, A, I, C, E;
c = D, A, S, R, W, V;
d = N, M;
e = X, B, F, L;
f = X;
g = Length (3 Digit Code Representing Detector Length)

Model FIBERTRAC 32 model code* FT32. KG a b c d e f g
Where:
a = 1;
b = B, L, D, G, A, I, C, E;
c = D, A, S, R, W, V;
d = N, M;
e = X, B, F, L;
f = X;v
g = Length (3 Digit Code Representing Detector Length)

Model SOLITRAC 31 model code ST31. KG a b c d e f g
Where:
a = 1;
b = B, L, D, G, A, I, C, E;
c = D, S, W;
d = N, M;
e = X, B, F, L;
f = X;
g = Length (3 Digit Code Representing Detector Length)

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Model MINITRAC 31 model code MT31. KG a b c d e f
Where:
a = 1;
b = B, L, D, G, A, I, C, E;
c = D, S, W;
d = N, M;
e = X, B, F, L;
f = X, S;

Model MINITRAC 32 model code MT32. KG a b c d e f
Where:
a = 1;
b = B, L, D, G, A, I, C, E;
c = D, S, W;
d = N, M;
e = X, B, F, L;
f = X;

Model WEIGHTRAC 31 model code WT31. KG abedefghi
Where:
a = 1;
b = B, D, G, A, C, E;
c = D, S, W;
d = N, M;
e = X, B, F, L;
f = X;
g= Frame Construction (1 digit code representing frame material)
h = Conveyor Width / Frame Upright Height (2 digit code representing frame size)
i = X; Source Holder Configuration (1digit code gamma source holder type)

Model WEIGHTRAC 32 model code WT32. KG abcdefghi
Where:
a = 1;
b = B, D, G, A, C, E;
c = D, S, W;
d = N, M;
e = X, B, F, L;
f = X;
g= Frame Construction (1 digit code representing frame material)
h = Conveyor Width / Frame Upright Height (2 digit code representing frame size)
i = X; Source Holder Configuration (1digit code gamma source holder type

Model POINTRAC 31 model code PT31. KG abcdefg
Where:
a = 1;
b = B, L, D, G, A, I, C, E;
c = D, S, W
d = N, M;

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e = X, B, F, L;
f = X;
g = Length (3 Digit Code Representing Detector Length)

Order code details:

Values	Description
a = Version / Ambient Temperature	
1	Standard temperature range
b = Electronics	
B or L	4 wire 4-20mA/ HART (intrinsically safe connection) in lateral compartment
D	4-wire Foundation Fieldbus (intrinsically safe connections) in lateral compartment
G	4-wire Profibus PA (intrinsically safe connections) in lateral compartment
A or I	4-wire 4-20mA/HART (non-intrinsically safe circuits) in main compartment
C	4-wire Foundation Fieldbus (non-intrinsically safe circuits) in main compartment
E	4-wire Profibus PA (non-intrinsically safe circuits) in main compartment
c = Housing / Ingress Protection:	
D	Aluminum
A	Aluminum with 316L conduit mount
S	Aluminum (Special Color)
R	Aluminum with conduit mount (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
F	Without; lid with inspection window
L	Side mounted with Bluetooth, magnetic pen operation
f = Additional Equipment: (1 digit representing accessories)	
X	Without
S	Internal lead shielding
g = Length	
3 Digit Code Representing Detector Length	
h = Conveyor Width / Frame Upright Height	
2 digit code representing frame size	
i = Source Holder Configuration (1 digit code gamma source holder type)	
X	No Source Holder Required - Plain Cross Beam

Electronics details

HART Electronics Option (Electronics B or L):

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Intrinsically safe current loop output with the parameters (terminals 1[+], 2 [-] in the lateral chamber):
Uo = 22.16V,
Io = 111.9mA,
Po = 620.03mW

Ui=10V
Ii=32mA,
Pi=80mW,
C_i negligible, L_i negligible

Maximum connection values for Single appearance only

Class I, Zone 0, Group IIC	Co (Ca) = 0.16 µF	Lo (La) = 2.8 mH
Class I, Division 1, Groups A & B		
Class I, Zone 0, Group IIB		
Zone 20, Group IIIC	Co (Ca) = 1.11 µF	Lo (La) = 12 mH
Class I & II, Division 1, Groups C & E,F,G		
Class I, Zone 0, Group IIA	Co (Ca) = 4.08 µF	Lo (La) =22.7 mH
Class I, II, III Division 1, Groups D, F, & G		

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

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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 (Gr A, B, C, D)
Maximum values:
Ui = 17.5 V,
Ii = 500 mA,
Pi = 5.5 W,
Ci negligible,
Li < 5µH

The instrument is suitable for connection to a Fieldbus system according to the FISCO model (CSA C22.2 No 60079-11 and UL 60079-11), or
Ui = 24 V,
Ii = 250 mA,
Pi = 1.2 W,
Ci negligible,
Li < 5µH

HART Electronics Option (Electronics A, B, I or L), Profibus PA (Electronics G or E) or Foundation Fieldbus (Electronics D or C) Electronic Option:
Display- and adjustment output (terminals 5,6,7,8 in the lateral chamber): For Display only
Uo = 6,0V,
Io = 209.7mA,
Po = 314.6mW,
C_i negligible, L_i negligible

Maximum connection values for Single appearance only

Class I, Zone 0, Group IIC Co (Ca) = 1.4 µF Lo (La) = 0.8 mH
Zone 20, Group IIIC
Class I, II Division 1, Groups A, B, C, D
Class II, III Division 1, Groups E, F, & G

Conditions of Acceptability:

1. The nonmetallic enclosure parts of this equipment may become a spark ignition hazard in the presence of static electricity. The enclosure shall be cleaned only with a damp cloth, and the equipment shall be mounted to avoid building static electric charge from nonconductive process flow, strong air currents, or other potential charging through friction.
2. Enclosures containing aluminum constitute a potential risk of ignition by impact or friction. This equipment must be mounted and/or physically guarded such that it is not subjected to impact or friction.

CLASS 2258 03 – PROCESS CONTROL EQUIPMENT – Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations
CLASS 2258 83 – PROCESS CONTROL EQUIPMENT – Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations - Certified to US Standards

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Class I, Division 2, Groups A, B, C, and D T* with Associated Nonincendive Field Wiring.
Class II, Division 2, Groups F and G T*; Class III, with Associated Nonincendive Field Wiring.
Type 4X Enclosure

Protrac Series Nuclear Scintillation Detectors - Models FIBERTRAC 31, FIBERTRAC 32, SOLITRAC 31, MINITRAC 31, MINITRAC 32, WEIGHTRAC 31, WEIGHTRAC 32, and POINTRAC 31.
Rated: 24 – 230Vac (-15%/+10%), 6VA, 50/60Hz / 24 – 65Vdc (-15%/+10%), 4W.
Relay contacts: 250Vac, 3A max.
Associated Non-incendive Field Wiring connections when installed per drawing GE2779
*T5 at -40°C ≤ $T_{ambient}$ ≤ +60°C
*T6 at -40°C ≤ $T_{ambient}$ ≤ +46°C
Maximum Process temperature (Tp) = +60°C

Model FIBERTRAC 31 model code* FT31.KX a b c d e f g
Where:
a = 1;
b = B, L, D, G, A, I, C, E;
c = D, A, S, R, W, V;
d = N, M;
e = X, B, F, L;
f = X;
g = Length (3 Digit Code Representing Detector Length)

Model FIBERTRAC 32 model code* FT32.KX a b c d e f g
Where:
a = 1;
b = B, L, D, G, A, I, C, E;
c = D, A, S, R, W, V;
d = N, M;
e = X, B, F, L;
f = X;
g = Length (3 Digit Code Representing Detector Length)

Model SOLITRAC 31 model code ST31.KX a b c d e f g
Where:
a = 1;
b = B, L, D, G, A, I, C, E;
c = D, S, W;
d = N, M;
e = X, B, F, L;
f = X;
g = Length (3 Digit Code Representing Detector Length)

Model MINITRAC 31 model code MT31.KX a b c d e f
Where:
a= 1;
b = B, L, D, G, A, I, C, E;

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c = D, S, W;
d = N, M;
e = X, B, F, L;
f = X, S;

Model MINITRAC 32 model code MT32.KX a b c d e f
Where:
a = 1;
b = B, L, D, G, A, I, C, E;
c = D, S, W;
d = N, M;
e = X, B, F, L;
f = X;

Model WEIGHTRAC 31 model code WT31. KX abedefghi
Where:
a = 1;
b = B, D, G, A, C, E;
c = D, S, W;
d = N, M;
e = X, B, F, L;
f = X;
g= Frame Construction (1 digit code representing frame material)
h = Conveyor Width / Frame Upright Height (2 digit code representing frame size)
i = X; Source Holder Configuration (1digit code gamma source holder type)

Model WEIGHTRAC 32 model code WT32. KX abcdefghi
Where:
a = 1;
b = B, D, G, A, C, E;
c = D, S, W;
d = N, M;
e = X, B, F, L;
f = X;
g= Frame Construction (1 digit code representing frame material)
h = Conveyor Width / Frame Upright Height (2 digit code representing frame size)
i = X; Source Holder Configuration (1digit code gamma source holder type)

Model POINTRAC 31 model code PT31. KX abcdefg
Where:
a = 1;
b = B, L, D, G, A, I, C, E;
c = D, S, W,
d = N, M;
e = X, B, F, L;
f = X;
g = Length (3 Digit Code Representing Detector Length)

Order code details:

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Values	Description
a = Version / Ambient Temperature	
1	Standard temperature range
b = Electronics	
B or L	4 wire 4-20mA/ HART (non-incendive connection) in lateral compartment
D	4-wire Foundation Fieldbus (non-incendive connections) in lateral compartment
G	4-wire Profibus PA (non-incendive connections) in lateral compartment
A or I	4-wire 4-20mA/HART (incendive circuits) in main compartment
C	4-wire Foundation Fieldbus (incendive circuits) in main compartment
E	4-wire Profibus PA (incendive circuits) in main compartment
c = Housing / Ingress Protection:	
D	Aluminum
A	Aluminum with 316L conduit mount /
S	Aluminum (Special Color)
R	Aluminum with conduit mount (Special Color)
W	Type 316 Stainless Steel
V	Type Stainless Steel with 316L Conduit Mount
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
F	Without; lid with inspection window
L	Side mounted with Bluetooth, magnetic pen operation
f = Additional Equipment: (1 digit representing accessories)	
X	Without
S	Internal lead shielding
g = Length	
3 Digit Code Representing Detector Length	
h = Conveyor Width / Frame Upright Height	
2 digit code representing frame size	
i = Source Holder Configuration (1 digit code gamma source holder type)	
X	No Source Holder Required - Plain Cross Beam

Electronics details

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HART Electronics Option (Electronics B or L):

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Non incendive current loop output with the parameters (terminals 1[+], 2 [-] in the lateral chamber):
Uo = 22.16V,
Io = 111.9mA,
Po = 620.03mW

Ui=10V
Ii=32mA,
Pi=80mW,
C_i negligible, L_i negligible

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

Non incendive 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 (Gr A, B, C, D)
Maximum values:
Ui = 24 V,
Ii = 250 mA,
Pi = 1.2 W
Ci negligible
Li < 5µH

HART Electronics Option (Electronics A, B, I or L), Profibus PA (Electronics G or E) or Foundation Fieldbus (Electronics D or C) Electronic Option:
Display- and adjustment output (terminals 5,6,7,8 in the lateral chamber):
Uo = 6,0V,
Io = 209.7mA,
Po = 314.6mW,
C_i negligible, L_i negligible

APPLICABLE REQUIREMENTS

Standards Used	Description
CAN/CSA C22.2 No. 61010-1-12, UPD1:2015, UPD2:2016, AMD1:2018	Safety requirements for electrical equipment for measurement, control, and laboratory use — Part 1: General requirements
UL 61010-1:2012 - Third Edition - Including revisions through November 21, 2018	Electrical Equipment For Measurement, Control, and Laboratory Use; Part 1: General Requirements
CSA C22.2 No. 94.2:20 - Third Edition	Enclosures for electrical equipment, environmental considerations
UL 50E:2020 - Third Edition	Enclosures for Electrical Equipment, Environmental Considerations
CAN/CSA C22.2 No. 60079-0:19	Explosive atmospheres - Part 0: Equipment - General requirements
ANSI/UL 60079-0:2019 - Seventh Edition - Including revisions through APRIL 15, 2020	UL Standard for Safety Explosive atmospheres – Part 0: Equipment – General requirements
CSA C22.2 No. 60079-1:16 - Third Edition	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"

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Standards Used	Description
ANSI/UL 60079-1:2015 - Seventh Edition	Explosive Atmospheres – Part 1: Equipment Protection by Flameproof Enclosures “d”
CAN/CSA-C22.2 No. 60079-11:14 - Second Edition	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
ANSI/UL 60079-11 (Sixth Edition; Reprint with Revisions Through and Including September 14, 2018)	Explosive Atmospheres – Part 11: Equipment Protection by Intrinsic Safety "i"
CSA C22.2 No. 60079-31:15 - Second Edition	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
UL 60079-31:2015 - Second Edition	Standard for Safety Explosive Atmospheres – Part 31: Equipment Dust Ignition Protection by Enclosure “t”
CAN/CSA-C22.2 No. 213-17 + UPD 1 (2018) + UPD 2 (2019) + UPD 3 (2021) (R2022)	Non-incendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations
ANSI/UL 121201:2017 - Ninth Edition - Including Revisions Through April 1, 2021	UL Standard for Safety Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations
CSA C22.2 No. 25:17 - Fourth Edition	Enclosures for use in Class II, Division 1, Groups E, F, and G hazardous locations
CSA C22.2 No. 30:20 - Fourth Edition - Including Update No. 1 - March 2023	Explosion-proof equipment
FM 3600:2018	Electrical Equipment for Use in Hazardous (Classified) Locations - General Requirements
FM 3610:2018	Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II, and III, Division 1, Hazardous (Classified) Locations
FM 3615 : 2018	Explosionproof Electrical Equipment – General Requirements
FM 3616:2022	Dust-Ignitionproof Electrical Equipment – General Requirements

Markings

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The products listed are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and U.S. Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only.

- Manufacturer’s name: “Vega Grieshaber KG”, or CSA Master Contract Number “153857”, adjacent to the CSA Mark in lieu of

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manufacturer's name.

- Model designation: As specified in the PRODUCTS section, above.
- Electrical ratings: As specified in the PRODUCTS section, above.
- Ambient temperature rating: As specified in the PRODUCTS section, above.
- Manufacturing date, or serial number, traceable to year and month of manufacture.
- Enclosure ratings: As specified in the PRODUCTS section, above.
- The CSA Mark, with or without the "C" and "US" indicators, as shown on the Certificate of Conformity.
- The designation "CSA 10CA2354484X" †
- Hazardous Location designation: As specified in the PRODUCTS section, above. The word "Class" may be abbreviated "CL", the word "Division" may be abbreviated "DIV", and the word "Groups" may be abbreviated "GRP" or "GP".
- Method of Protection markings (Ex – markings): As specified in the PRODUCTS section, above. The word "Class" may be abbreviated "CL", the word "Zone" may be abbreviated "ZN". †
- The words: "Install per drawing GE2779", or equivalent. †
- ISO 3864 Symbol B.3.1 ⚠ or ISO 7000 symbol 0434 ⚠ (triangle with exclamation point)
- ISO 60417, Symbol 5031 ⎓ adjacent to the DC input terminal rating.
- ISO 60417, Symbol 5032 ∿ adjacent to the AC input terminal rating.
- The words "Use wire rated ≥ 70°C", or equivalent.
- ISO 60417, Symbol 5019 ⏚ shall be permanently marked adjacent to the equipment ground (protective conductor) terminal.
- Identification of threaded entries ½-14 NPT, or M20 x 1.5
- The following words, or suitable equivalent in English and French language:
  - WARNING – DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT

AVERTISSEMENT – NE PAS OUVRIR SI UNE ATMOSPHÈRE EXPLOSIVE PEUT ÈTRE PRÈSENTE

- The following words, or suitable equivalent in English and French language, only for FIBERTRAC Series:
  - "WARNING - POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS", and "AVERTISSEMENT - RISQUE POTENTIEL DE CHARGE ÉLECTROSTATIQUE - VOIR LES INSTRUCTIONS" †

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Notes:

Products certified under Class(es) C225803, C225804, C225883, C225884 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). www.scc.ca

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Supplement to Certificate of Compliance

Certificate: 2354484 **Master Contract:** 153857

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
80279712	2026-03-20	Update to report 2354484 to add display and adjustment module (Ex-Component), model PLICSCOM(*).4B/W*.
80092261	2022-07-19	The scope is to update report 2327401 (LR 23257) for explosionproof, dust igntionproof, and intrinsically safe Protrac Series Nuclear Scintillation Detectors including FIBERTRAC 31, FIBERTRAC 32, SOLITRAC 31, MINITRAC 31, MINTRAC 32, POINTRAC 31, WEIGHTRAC 31 and WEIGHTRAC 32 to assess the following: I. Change of master contract number to 153857, and report number change from 2327401 to 2354484 II. Update the list of the applicable standards to the latest editions III. Update the descriptive documents to bring these in line with updates contained in IECEx BVS 10.0060 Issues 2 through 4, and updated FM Approval Reports 3037611, 3031547, and FM Certificate of Conformity FM16US0215X. IV. Address the findings per Vega Grieshaber KG (FC# 153858) FIR dated Sept. 10, 2020, report 2327401 a. Correction to temperature range in report b. Review and update drawings to reflect current/correct rev levels and dates
2354484	2010-10-05	Duplication of Ohmart Vega report 153855-2327401 to VEGA Grieshaber KG, Master Contract 153857.

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