Certificate of Compliance

Certificate: 70015745 **Master Contract:** 153857

Project: 80308743 **Date Issued:** September 21, 2026

Issued to: **Vega Grieshaber KG**
Am Hohenstein 113
Schiltach, Baden-Württemberg 77761
Germany

Attention: **Jochen Schwendemann**

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

Issued by: Rahul Arekar

PRODUCTS

Part A:

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 1, Groups C, and D T6…T1*; Type 4X/6P, IP66/68; Dual Seal**
Ex d ia IIC T6…T1* Ga/Gb, Gb
Class I, Zone 0/1, 1, AEx d ia IIC T6…T1* Ga/Gb, Gb

T6…T1* = Refer to temperature values mentioned below.

VEGABAR *8*(*).CE/Z/Q/J, VEGABAR *8*(*).VE with integrated electronics Z (4 … 20 mA), H (4 … 20 mA/HART) or A (4 … 20 mA/HART with SIL qualification), P (Profibus PA), F (Foundation Fieldbus) or S, T (differential pressure measurement). Enclosure types 4X/6P, IP66/68, Rated 4-20 mA, up to 35 Vdc. Connections to the intrinsically safe circuits provided per the Control Drawing No. 50600 and 50743

Temperatures Code and Ambient Temperatures Range are as follows: **For use as Zone 0 and Zone 1, Division 1 installations**

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Temperature Code / Class	Ambient temperature on the electronics (Zone 1)	Product temperature range (sensor, zone 0)
T6	-50… +60°C	-20… +23°C
T5, T4, T3, T2, T1	-50… +60°C	-20… +60°C

Division 1, Zone 1 installation, VEGABAR 82, VEGABAR 83 with METEC measuring cell

Temperature Code / Class	Ambient temperature on the electronics (Zone 1)	Product temperature range (sensor, zone 1)
T6	-50… +60°C	-50… +39°C
T5	-50… +60°C	-50… +100°C
T4	-50… +50°C	-50… +135°C
T3, T2, T1	-50… +50°C	-50… +200°C

Division 1, Zone 1 installation, VEGABAR 83 version with piezoresistive/strain gauge measuring cell, version without cooling element.

Temperature Code / Class	Ambient temperature on the electronics (Zone 1)	Product temperature range (sensor, zone 1)
T6	-50… +60°C	-50… +39°C
T5	-50… +60°C	-50… +85°C
T4	-50… +40°C	-50… +105°C
T3, T2, T1	-50… +30°C	-50… +120°C

Division 1, Zone 1 installation, VEGABAR 81, VEGABAR 83 version with piezoresistive/strain gauge measuring cell, version with cooling element

Temperature Code / Class	Ambient temperature on the electronics (Zone 1)	Product temperature range (sensor, zone 1)
T6	-50… +60°C	-50… +39°C
T5	-50… +60°C	-50… +85°C
T4	-50… +50°C	-50… +120C
T3, T2, T1	-50… +40°C	-50…+150°C

Notes:
*1. * T6-T1 is based on maximum process temperatures identified in Control Drawing No. 50600 and 50743*
*2. ** Dual Seal is available only for Housing option type "D", and type "W"*

a81(b).cdefghi(j)klmnoprs

a = Electable parameter depending on the customer, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties

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b = Optional electable parameter for internal information, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties
c = Scope: C, F or V
d = Approval: E, Z, J or Q
ef = Process Fitting/Material: Two digit alphanumeric variable for connections, which represents a Thread, TRI-CLAMP, DN or ASME industry type flange with pressure ratings and any type which comply with an international or national standard.
g = Isolating liquid/Process temperature: One digit variable for included isolating fluid, which represents type and temperature limits of the fluid.
h = Diaphragm material: One digit variable designating the material type of the diaphragm
i = Pressure: One digit variable designating type of pressure measurement needed such as absolute or relative
j = Measuring range: One digit variable designating the allowable measurement range of the pressure cell
k = Accuracy class: One digit variable designating the accuracy of the instrument
l = Electronics: Z, H, A, P, F, S T
m = Supplementary Electronics: X, Z
n = Housing: A, V, D, W
o = Housing version/protection: I, A, S, K, D or L
p = Cable Entry/Connection: D, N, 1, Q
r = Indicating/Adjustment Module PLICSCOM: A, B, F, K, L, or X
s = Additional certificates, tests and options: The feature describes certificates required by the customer, additional tests, and further options.
Additional options:

a) Pressure transmitter fluids:

- Silicone oil
- High temperature oil
- Halocarbon oil
- Medical white oil
- Neobee M-20
- PRICERINE 9098
- Glycerine filling medium KN7

b) Device settings and location designation

a82(b).cdefghi(j)klmnoprs

a = Electable parameter depending on the customer, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties
b = Optional electable parameter for internal information, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties
c = Scope: C, F or V
d = Approval: E, Z, J or Q
ef = Process Fitting/Material: Two digit alphanumeric variable for connections, which represents a Thread, TRI-CLAMP, DN or ASME industry type flange with pressure ratings and any type which comply with an international or national standard.
g = Sealing concept: S, D or F

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h = Measuring cell seal/Process temperature: One digit variable designating the measuring cell seal type and the allowed process temperature range
i = Pressure: One digit variable designating type of pressure measurement needed such as absolute or relative
j = Measuring range: One digit variable designating the allowable measurement range of the pressure cell
k = Accuracy class: One digit variable designating the accuracy of the instrument
l = Electronics: Z, H, A, P, F, S T
m = Supplementary Electronics: X, Z
n = Housing: A, V, D, W
o = Housing version/protection: I, A, S, K, D or L
p = Cable Entry/Connection: D, N, 1, Q
r = Indicating/Adjustment Module PLICSCOM: A, B, F,K, L, or X
s = Additional certificates, tests and options: The feature describes certificates required by the customer, additional tests, and further options.
Additional options:

a) Pressure transmitter fluids:
- Silicone oil
- High temperature oil
- Halocarbon oil
- Medical white oil
- Neobee M-20
- PRICERINE 9098
- Glycerine filling medium KN7

b) Device settings and location designation

a83(b).cdefghi(j)klmnopr

a = Electable parameter depending on the customer, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties
b = Optional electable parameter for internal information, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties
c = Scope: C, F or V
d = Approval: E, Z, J or Q
ef = Process Fitting/Material: Two digit alphanumeric variable for connections, which represents a Thread, TRI-CLAMP, DN or ASME industry type flange with pressure ratings and any type which comply with an international or national standard.
g = Process temperature/Seal: S, 1, 3, P, 5, E, A, C, Q, F, N, H or T
h = Pressure: One digit variable designating type of pressure measurement needed such as absolute or relative
i = Measuring range: One digit variable designating the allowable measurement range of the pressure cell
j = Accuracy class: One digit variable designating the accuracy of the instrument
k = Electronics: Z, H, A, P, F, S T
l = Supplementary Electronics: X, Z
m = Housing: A, V, D, W
n = Housing version/protection: I, A, S, K, D or L
o = Cable Entry/Connection: D, N, 1, Q

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p = Indicating/Adjustment Module PLICSCOM: A, B, F, K, L, or X
r = Additional certificates, tests and options: The feature describes certificates required by the customer, additional tests, and further options.
Additional options:

a) Pressure transmitter fluids:

- Silicone oil
- High temperature oil
- Halocarbon oil
- Medical white oil
- Neobee M-20
- PRICERINE 9098
- Glycerine filling medium KN7

b) Device settings and location designation

a86(b).cdefghi(j)klmnoprs

a = Electable parameter depending on the customer, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties
b = Optional electable parameter for internal information, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties
c = Scope: C, F or V
d = Approval: E, Z, J or Q
e = Version/Process temperature: A, B, C or D
fg = Process Fitting/Material: Two digit alphanumeric variable for connections, which represents a Thread, TRI-CLAMP, DN or ASME industry type flange with pressure ratings and any type which comply with an international or national standard.
h = Transmitter options: One digit variable designating the transmitter type/material
i = Sealing concept/Measuring cell seal: A, D or J
j = Pressure: One digit variable designating type of pressure measurement needed such as absolute or relative
k = Measuring range: One digit variable designating the allowable measurement range of the pressure cell
l = Electronics: Z, H, A, P, F, S T
m = Supplementary Electronics: X, Z
n = Housing: A, V, D, W
o = Housing version/protection: I, A, S, K, D or L
p = Cable Entry/Connection: D, N, 1, Q
r = Indicating/Adjustment Module PLICSCOM: A, B, F, K, L, or X
s = Additional certificates, tests and options: The feature describes certificates required by the customer, additional tests, and further options.
Additional options:

a) Pressure transmitter fluids:

- Silicone oil
- High temperature oil
- Halocarbon oil
- Medical white oil

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- Neobee M-20
- PRICERINE 9098
- Glycerine filling medium KN7

b) Device settings and location designation

a87(b).cdefghi(j)klmnoprs

a = Electable parameter depending on the customer, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties
b = Optional electable parameter for internal information, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties
c = Scope: C, F or V
d = Approval: E, Z, J or Q
e = Version/Process temperature: B or D
fg = Process Fitting/Material: Two digit alphanumeric variable for connections, which represents a Thread, TRI-CLAMP, DN or ASME industry type flange with pressure ratings and any type which comply with an international or national standard.
h = Transmitter options: One digit variable designating the transmitter type/material
i = Pressure: One digit variable designating type of pressure measurement needed such as absolute or relative
j = Measuring range: One digit variable designating the allowable measurement range of the pressure cell
k = Accuracy class: One digit variable designating the accuracy of the instrument
l = Electronics: Z, H, A, P, F, S T
m = Supplementary Electronics: X, Z
n = Housing: A, V, D, W
o = Housing version/protection: I, A, S, K, D or L
p = Cable Entry/Connection: D, N, 1, Q
r = Indicating/Adjustment Module PLICSCOM: A, B, F, K, L, or X
s = Additional certificates, tests and options: The feature describes certificates required by the customer, additional tests, and further options.
Additional options:

a) Pressure transmitter fluids:

- Silicone oil
- High temperature oil
- Halocarbon oil
- Medical white oil
- Neobee M-20
- PRICERINE 9098
- Glycerine filling medium KN7

b) Device settings and location designation

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Certificate: 70015745 **Master Contract:** 153857
Project: 80308743 **Date Issued:** September 21, 2026

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, Division 1, Groups A, B, C, and D; T6…T1*
Encl. Type 4X/6P, IP66/68; Dual Seal**
Ex ia IIC T6…T1* Ga, Ga/Gb, Gb
Class I, Zone 0, 0/1, 1, AEx ia IIC T6…T1* Ga, Ga/Gb, Gb

T6…T1* = Refer to temperature values mentioned below.

Intrinsically safe, with entity parameters, for use in Class I; Division 1; Groups A, B, C, D and Class I, Zone 0, Group IIC in accordance with manufacturer's Control Drawing No. 50609, 50726;

With integrated electronics Z (4 … 20 mA), H (4 … 20 mA/HART) or A (4 … 20 mA/HART with SIL qualification)

Entity parameters: Ui = 30V, Ii = 131 mA, Pi = 983 mW

With integrated electronics P (Profibus PA), F (Foundation Fieldbus)

Maximum values: Ui = 17.5 V, Ii = 500 mA, Pi = 5.5 W

or Ui = 24 V, Ii = 250 mA, Pi = 1.2 W
Temperature Code and Ambient Temperature Range are as follows:

Class I, Zone 0 application

Temperature Code / Class	Ambient temperature on the sensor and electronics
T6	-20… +23°C
T5, T4, T3, T2, T1	-20… +60°C

Class I, Zone 0/ 1 application

Temperature Code / Class	Ambient temperature on the electronics	Product temperature on the sensor
T6	-50… +39°C***	-20… +23°C
T5, T4, T3, T2, T1	-50… +70°C***	-20… +60°C

Class I, Div 1 applications, Class I, Zone 1, applications:

VEGABAR 82, VEGABAR 83 with METEC measuring cell

Temperature class	Ambient temperature on the electronics (Zone 1)	Product temperature range (sensor, zone 1)

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T6	-50 … +39 °C***	-50 … +39 °C
T5	-50 … +70 °C***	-50 … +100 °C
T4	-50 … +50 °C***	-50 … +135 °C
T3, T2, T1	-50 … +50 °C***	-50 … +200 °C

Class I, Div 1 applications, Class I, Zone 1, applications:

VEGABAR 83 version with piezoresistive/strain gauge measuring cell, version without cooling element

Temperature class	Ambient temperature on the electronics (Zone 1)	Product temperature range (sensor, zone 1)
T6	-50 … +39 °C***	-50 … +39 °C
T5	-50 … +70 °C***	-50 … +85 °C
T4	-50 … +40 °C***	-50 … +105 °C
T3, T2, T1	-50 … +30 °C***	-50 … +120 °C

Class I, Div 1 applications, Class I, Zone 1, applications:

VEGABAR 81, VEGABAR 83 version with piezoresistive/strain gauge measuring cell, version with cooling element

Temperature class	Ambient temperature on the electronics (Zone 1)	Product temperature range (sensor, zone 1)
T6	-50 … +39 °C***	-50 … +39 °C
T5	-50 … +70 °C***	-50 … +85 °C
T4	-50 … +50 °C***	-50 … +120 °C
T3, T2, T1	-50 … +40 °C***	-50 … +150 °C

Notes:
*1. * T6-T1 is based on maximum process temperatures identified in Control Drawing No. 50609*
*2. ** Dual Seal is available only for Housing option type "D", type "R", and type "W"*
3. *** The ambient temperature is reduced to -40°C when PLICSCOM display module is mounted in the main chamber housing.

a81(b).cdefghi(j)klmnoprs

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b = Optional electable parameter for internal information, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties
c = Scope: C, F or V
d = Approval: C, U, H, T or O

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ef = Process Fitting/Material: Two digit alphanumeric variable for connections, which represents a Thread, TRI-CLAMP, DN or ASME industry type flange with pressure ratings and any type which comply with an international or national standard.
g = Isolating liquid/Process temperature: One digit variable for included isolating fluid, which represents type and temperature limits of the fluid.
h = Diaphragm material: One digit variable designating the material type of the diaphragm
i = Pressure: One digit variable designating type of pressure measurement needed such as absolute or relative
j = Measuring range: One digit variable designating the allowable measurement range of the pressure cell
k = Accuracy class: One digit variable designating the accuracy of the instrument
l = Electronics: Z, H, A, P, F, S or T
m = Supplementary Electronics: X-or Z
n = Housing: A, D, V, 8, or W
o = Housing version/protection: I, P, N, A, S, K, L, D or M
p = Cable Entry/Connection: M, S, T, K, U, V, L, O, D, 6, N, J, 8, P, C, B, I, F, G, H, W or Z
r = Indicating/Adjustment Module PLICSCOM: A, B, F, K, L, or X
s = Additional certificates, tests and options: The feature describes certificates required by the customer, additional tests, and further options.
Additional options:

a) Pressure transmitter fluids:
- Silicone oil
- High temperature oil
- Halocarbon oil
- Medical white oil
- Neobee M-20
- PRICERINE 9098
- Glycerine filling medium KN7

b) Device settings and location designation

a82(b).cdefghi(j)klmnoprs

a = Electable parameter depending on the customer, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties
b = Optional electable parameter for internal information, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties
c = Scope: C, F or V
d = Approval: C, U, H, T or O
ef = Process Fitting/Material: Two digit alphanumeric variable for connections, which represents a Thread, TRI-CLAMP, DN or ASME industry type flange with pressure ratings and any type which comply with an international or national standard.
g = Sealing concept: S, D or F
h = Measuring cell seal/Process temperature: One digit variable designating the measuring cell seal type and the allowed process temperature range
i = Pressure: One digit variable designating type of pressure measurement needed such as absolute or relative
j = Measuring range: One digit variable designating the allowable measurement range of the pressure cell

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k = Accuracy class: One digit variable designating the accuracy of the instrument
l = Electronics: Z, H, A, P, F, S or T
m = Supplementary Electronics: X or Z
n = Housing: A, D, V, 8, or W
o = Housing version/protection: I, P, N, A, S, K, L, D or M
p = Cable Entry/Connection: M, S, T, K, U, V, L, O, D, 6, N, J, 8, P, C, B, I, F, G, H, W or Z
r = Indicating/Adjustment Module PLICSCOM: A, B, F, K, L, or X
s = Additional certificates, tests and options: The feature describes certificates required by the customer, additional tests, and further options.
Additional options:

a) Pressure transmitter fluids:

- Silicone oil
- High temperature oil
- Halocarbon oil
- Medical white oil
- Neobee M-20
- PRICERINE 9098
- Glycerine filling medium KN7

b) Device settings and location designation

a83(b).cdefghi(j)klmnopr

a = Electable parameter depending on the customer, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties
b = Optional electable parameter for internal information, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties
c = Scope: C, F or V
d = Approval: C, U, H, T or O
ef = Process Fitting/Material: Two digit alphanumeric variable for connections, which represents a Thread, TRI-CLAMP, DN or ASME industry type flange with pressure ratings and any type which comply with an international or national standard.
g = Process temperature/Seal: S, 1, 3, P, 5, E, A, C, Q, F, N, H or T
h = Pressure: One digit variable designating type of pressure measurement needed such as absolute or relative
i = Measuring range: One digit variable designating the allowable measurement range of the pressure cell
j = Accuracy class: One digit variable designating the accuracy of the instrument
k = Electronics: Z, H, A, P, F, S or T
l = Supplementary Electronics: X or Z
m = Housing: A, D, V, 8, or W
n = Housing version/protection: I, P, N, A, S, K, L, D or M
o = Cable Entry/Connection: M, S, T, K, U, V, L, O, D, 6, N, J, 8, P, C, B, I, F, G, H, W or Z
p = Indicating/Adjustment Module PLICSCOM: A, B, F, K, L or X
r = Additional certificates, tests and options: The feature describes certificates required by the customer, additional tests, and further options.
Additional options:

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a) Pressure transmitter fluids:
- Silicone oil
- High temperature oil
- Halocarbon oil
- Medical white oil
- Neobee M-20
- PRICERINE 9098
- Glycerine filling medium KN7

b) Device settings and location designation

a86(b).cdefghi(j)klmnoprs

a = Electable parameter depending on the customer, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties
b = Optional electable parameter for internal information, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties
c = Scope: C, F or V
d = Approval: C, U, H, T or O
e = Version/Process temperature: A, B, C or D
fg = Process Fitting/Material: Two digit alphanumeric variable for connections, which represents a Thread, TRI-CLAMP, DN or ASME industry type flange with pressure ratings and any type which comply with an international or national standard.
h = Transmitter options: One digit variable designating the transmitter type/material
i = Sealing concept/Measuring cell seal: A, D or J
j = Pressure: One digit variable designating type of pressure measurement needed such as absolute or relative
k = Measuring range: One digit variable designating the allowable measurement range of the pressure cell
l = Electronics: Z, H, A, P, F, S or T
m = Supplementary Electronics: X or Z
n = Housing: A, D, V, 8, or W
o = Housing version/protection: I, P, N, A, S, K, L, D or T
p = Cable Entry/Connection: M, S, T, K, U, V, L, O, D, 6, N, J, 8, P, C, B, I, F, G, H, W or Z
r = Indicating/Adjustment Module PLICSCOM: A, B, F, K, L, or X
s= Additional certificates, tests and options: The feature describes certificates required by the customer, additional tests, and further options.
Additional options:

a) Pressure transmitter fluids:
- Silicone oil
- High temperature oil
- Halocarbon oil
- Medical white oil
- Neobee M-20
- PRICERINE 9098
- Glycerine filling medium KN7

b) Device settings and location designation

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a87(b).cdefghi(j)klmnoprs
a = Electable parameter depending on the customer, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties
b = Optional electable parameter for internal information, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties
c = Scope: C, F or V
d = Approval: C, U, H, T or O
e = Version/Process temperature: B or D
fg = Process Fitting/Material: Two digit alphanumeric variable for connections, which represents a Thread, TRI-CLAMP, DN or ASME industry type flange with pressure ratings and any type which comply with an international or national standard.
h = Transmitter options: One digit variable designating the transmitter type/material
i = Pressure: One digit variable designating type of pressure measurement needed such as absolute or relative
j = Measuring range: One digit variable designating the allowable measurement range of the pressure cell
k = Accuracy class: One digit variable designating the accuracy of the instrument
l = Electronics: Z, H, A, P, F, S or T
m = Supplementary Electronics: X or Z
n = Housing: A, D, V, 8, or W
o = Housing version/protection: I, P, N, A, S, K, L, D or T
p = Cable Entry/Connection: M, S, T, K, U, V, L, O, D, 6, N, J, 8, P, C, B, I, F, G, H, W or Z
r = Indicating/Adjustment Module PLICSCOM: A, B, F, K, L, or X
s = Additional certificates, tests and options: The feature describes certificates required by the customer, additional tests, and further options.
Additional options:

a) Pressure transmitter fluids:
- Silicone oil
- High temperature oil
- Halocarbon oil
- Medical white oil
- Neobee M-20
- PRICERINE 9098
- Glycerine filling medium KN7

b) Device settings and location designation

Class I Division 1 Group A, B, C and D T6…T1*; Type 4X/6P, IP66/68; Dual Seal**
Ex d ia IIC T6…T1* Ga/Gb, Gb
Class I, Zone 0/1, 1, AEx d ia IIC T6…T1* Ga/Gb, Gb

T6…T1* = Refer to temperature values mentioned below.

Explosion-proof providing entity parameters to external field device per the Control Drawing No. 50613:

Electrical ratings:
With integrated electronics Z (4 … 20 mA), H (4 … 20 mA/HART): U = 15 … 35 V AC

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With integrated electronics U (Modbus): U = 8 … 34 V DC

Temperature Code and Ambient Temperature Range are as follows:

With integrated electronics Z (4 … 20 mA), H (4 … 20 mA/HART) or U (Modbus)

Installation at the separation between Zone 0 and Zone 1, Division 1 installations

Temperature Code	Ambient temperature (electronics, zone 1)		Product temperature range (measuring sensor, zone 0)
	VEGABAR *8* with electronics Z, H	VEGABAR *8* with electronics U	
T6	-50 … +46 °C***	-40 … +46 °C	-20 … +23 °C
T5, T4, T3, T2, T1	-50 … +60 °C***	-40 … +60 °C	-20 … +60 °C

Div 1, Zone 1 installation, VEGABAR 82, VEGABAR 83 version with METEC measuring cell

Temperature Code	Ambient temperature (electronics, zone 1)		Product temperature range (measuring sensor, zone 1)
	VEGABAR *8* with electronics Z, H	VEGABAR *8* with electronics U	
T6	-50 … +46 °C***	-40 … +46 °C	-50 … +39 °C
T5	-50 … +60 °C***	-40 … +60 °C	-50 … +100 °C
T4	-50 … +50 °C***	-40 … +50 °C	-50 … +135 °C
T3, T2, T1	-50 … +50 °C***	-40 … +50 °C	-50 … +200 °C

Div 1, Zone 1 installation, VEGABAR 83 version with piezoresistive/strain gauge measuring cell, version without cooling element

Temperature Code	Ambient temperature (electronics, zone 1)		Product temperature range (measuring sensor, zone 1)
	VEGABAR *8* with electronics Z, H	VEGABAR *8* with electronics U	
T6	-50 … +46 °C***	-40 … +46 °C	-50 … +39 °C
T5	-50 … +60 °C***	-40 … +60 °C	-50 … +85 °C
T4	-50 … +40 °C***	-40 … +40 °C	-50 … +105 °C
T3, T2, T1	-50 … +30 °C***	-40 … +30 °C	-50 … +120 °C

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Div 1, Zone 1 installation, VEGABAR 81, VEGABAR 83 version with piezoresistive/strain gauge measuring cell, version with cooling element

Temperature class	Ambient temperature (electronics, zone 1)		Product temperature range (measuring sensor, zone 1)
	VEGABAR *8* with electronics Z, H	VEGABAR *8* with electronics U	
T6	-50 … +46 °C***	-40 … +46 °C	-50 … +39 °C
T5	-50 … +60 °C***	-40 … +60 °C	-50 … +85 °C
T4	-50 … +50 °C***	-40 … +50 °C	-50 … +120 °C
T3, T2, T1	-50 … +40 °C***	-40 … +40 °C	-50 … +150 °C

Notes:
*1. * T6-T1 is based on maximum process temperatures identified in Control Drawing* No. 50613
*2. ** Dual Seal is available only for Housing option type "D", and type "W"*
*3. ***** The ambient temperature is reduced to -40°C when PLICSCOM display module is mounted in the main chamber housing.

a81(b).cdefghi(j)klmnoprs

a = Electable parameter depending on the customer, options not affecting safety, one digit alphanumeric variable referring to non-electrical properties
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c = Scope: C, F or V
d = Approval: D, V, P or I
ef = Process Fitting/Material: Two digit alphanumeric variable for connections, which represents a Thread, TRI-CLAMP, DN or ASME industry type flange with pressure ratings and any type which comply with an international or national standard.
g = Isolating liquid/Process temperature: One digit variable for included isolating fluid, which represents type and temperature limits of the fluid.
h = Diaphragm material: One digit variable designating the material type of the diaphragm
i = Pressure: One digit variable designating type of pressure measurement needed such as absolute or relative
j = Measuring range: One digit variable designating the allowable measurement range of the pressure cell
k = Accuracy class: One digit variable designating the accuracy of the instrument
l = Electronics: Z, H, U
m = Supplementary Electronics: X
n = Housing: D or W
o = Housing version/protection: I, A, S, K, D or L
p = Cable Entry/Connection: D, N, 1, Q
r = Indicating/Adjustment Module PLICSCOM: A, B, F, K, L, or X
s = Additional certificates, tests and options: The feature describes certificates required by the customer, additional tests, and further options.
Additional options:

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a) Pressure transmitter fluids:
- Silicone oil
- High temperature oil
- Halocarbon oil
- Medical white oil
- Neobee M-20
- PRICERINE 9098
- Glycerine filling medium KN7

b) Device settings and location designation

a82(b).cdefghi(j)klmnoprs

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b) Device settings and location designation

a83(b).cdefghi(j)klmnopr

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ef = Process Fitting/Material: Two digit alphanumeric variable for connections, which represents a Thread, TRI-CLAMP, DN or ASME industry type flange with pressure ratings and any type which comply with an international or national standard.
g = Process temperature/Seal: S, 1, 3, P, 5, E, A, C, Q, F, N, H or T
h = Pressure: One digit variable designating type of pressure measurement needed such as absolute or relative
i = Measuring range: One digit variable designating the allowable measurement range of the pressure cell
j = Accuracy class: One digit variable designating the accuracy of the instrument
k = Electronics: Z, H, U
l = Supplementary Electronics: X
m = Housing: D, or W
n = Housing version/protection: I, A, S, K, D or L
o = Cable Entry/Connection: D, N, 1, Q
p = Indicating/Adjustment Module PLICSCOM: A, B F, K, L or X
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b) Device settings and location designation

a86(b).cdefghi(j)klmnoprs

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c = Scope: C, F or V
d = Approval: D, V, P or I

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e = Version/Process temperature: A, B, C or D
fg = Process Fitting/Material: Two digit alphanumeric variable for connections, which represents a Thread, TRI-CLAMP, DN or ASME industry type flange with pressure ratings and any type which comply with an international or national standard.
h = Transmitter options: One digit variable designating the transmitter type/material
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o = Housing version/protection: I, A, S, K, D or L
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b) Device settings and location designation

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- Glycerine filling medium KN7

b) Device settings and location designation

Part B:

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

Class II, Division 1, Groups E, F and G; Class III; TX°C*; Type 4X/6P, IP66/68;

Ex ia ta IIIC TX°C* Da
Ex ia tb IIIC TX°C* Db
Ex ia/tb IIIC TX°C* Da/Db

Zone 20 AEx ia ta IIIC TX°C* Da
Zone 21 AEx ia tb IIIC TX°C* Db
Zone 20/21 AEx ia/tb IIIC TX°C* Da/Db

Dust ignition-proof providing entity parameters to external field device per the Control Drawing No. 52267:

Electrical ratings:
With integrated electronics Z (4 … 20 mA), H (4 … 20 mA/HART), A (4 … 20 mA/HART with SIL qualification), or U (Modbus): U = 9.6 … 30 V DC

With integrated electronics P (Profibus), or F (Foundation Fieldbus): U = 9.6 … 32 V DC

Ambient Temperature Range -40 … +60 °C

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Notes:
*1. * TX°C is based on maximum process temperatures identified in Control Drawing* No. 52267

a81(b).cdefghi(j)klmnoprs

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n = Housing: A, D, V or W
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p = Cable Entry/Connection: D, N, 1, Q
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Notes:
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2. Electronics U is only applicable with approval I or R

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n = Housing: A, D, V or W
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r = Indicating/Adjustment Module PLICSCOM: A, B, F, K, L or X
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- Halocarbon oil
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- Glycerine filling medium KN7

b) Device settings and location designation

Notes:
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m = Housing: A, D, V or W
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2. Electronics U is only applicable with approval I or R

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n = Housing: A, D, V or W
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p = Cable Entry/Connection: D, N, 1, Q
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b) Device settings and location designation

Notes:
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2. Electronics U is only applicable with approval I or R

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- Glycerine filling medium KN7

b) Device settings and location designation

Notes:
1. Approval I only applicable with electronics Z, H, or U
2. Electronics U is only applicable with approval I or R

Ex ia/tb ia IIIC TX°C* Da/Db
Zone 20/21 AEx ia/tb ia IIIC TX°C* Da/Db

a81(b).cdefghi(j)klmnoprs

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b) Device settings and location designation

Notes:
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b) Device settings and location designation

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b) Device settings and location designation

Notes:
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Conditions of Acceptability: (For all Models)

1. At the plastic parts of the pressure transmitter type VEGABAR *8*(*) there is a danger of ignition by electrostatic discharge. Observe manual of the manufacturer and warning label.
2. For EPL Ga resp. EPL Ga/Gb applications, at the metallic parts of the pressure transmitter type VEGABAR *8*(*) made of light metal there is a danger of ignition by impact or friction. Observe manual of the manufacturer.
3. For EPL Ga resp. EPL Ga/Gb applications and at risks by pendulum or vibration the respective parts of the pressure transmitter type VEGABAR *8*(*) have to be secured effectively against these dangers. Observe manual of the manufacturer.
4. For EPL Ga/Gb applications, the medium tangent materials of the pressure transmitter type VEGABAR *8*(*) have to be resistant to the media. Observe manual of the manufacturer.
5. For the execution with separate housing of the pressure transmitter type VEGABAR *8*(*) potential equalization has to exist in the complete course of the erection of the connecting cable between the electronics housing and the measuring sensor housing.
6. The flameproof housing of this equipment must be provided with cable entries and filler plugs resp. conduits which are certified according to IEC 60079-0 and IEC 60079-1. The connection cables, the cable entries and filler plugs resp. the conduits have to be suitable for the lowest ambient temperature.
7. VEGABAR *8* with electronics U: The intrinsically safe circuits of the barrier type P3-MODBUS are galvanically connected with the earth potential. Potential equalization has to exist in the complete course of the erection of the intrinsically safe circuits.
8. For applications requiring instruments of Class I, Zone 0, Zone 0/1 the process pressure of the media must be between 0.8 … 1.1 bar.
   If the VEGABAR *8*(*).*E/Z/Q/J, VEGABAR *8*.*C/U/O/H/T and VEGABAR *8*(*).*D/V/P/I are operated at temperatures higher than those specified in the above table, please make sure through appropriate measures that there is no danger of ignition from the hot surfaces. The max. permissible temperature on the electronics/housing should not exceed the values specified in the above table.
   The application conditions during operation with no explosive mixtures present are stated in the manufacturer information.
9. Wiring shall be in accordance with wiring method prescribed in Canadian Electrical Code (CEC) for installations in Canada and as per National Electrical Code (NFPA 70) for installation within U.S.
10. To be supplied by a Class 2 a limited energy source in accordance with CSA 61010-1-12 or ISA 61010-1 3rd Edition.
11. Product Application, Conditions of Safe Use, and Installation shall be according to the Safety Instructions of appropriate protection method.
12. The temperature at the cable entry or branching point can reach 75°C at an ambient temperature of 70°C. This must be considered by the user when selecting field wiring and cable entry devices.

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APPLICABLE REQUIREMENTS

Part A:

CAN/CSA C22.2 No. 61010-1-12, UPD1:2015, UPD2:2016, AMD1:2018, UPD3:2023, UPD4:2024	Safety requirements for electrical equipment for measurement, control, and laboratory use — Part 1: General requirements - Third Edition
CSA C22.2 No. 25:17 (R 2022)	Enclosures for Use in Class II Groups E, F and G Hazardous Locations
CSA C22.2 No. 30-20 – Fourth edition	Explosion-Proof Enclosures For Use In Class I Hazardous Locations
CSA C22.2 No. 94.2:15 – Second Edition	Enclosures for Electrical Equipment, Environmental Considerations
CSA C22.2 No. 60079-0:19 – Fourth Edition	Electrical Apparatus for Explosive Gas Atmospheres – Part 0: General Requirements
CAN/CSA C22.2 No. 60079-11:14 (R2023)	Electrical apparatus for explosive gas atmospheres - Part 11: intrinsic safety “i”
CSA C22.2 No. 60079-1:16 - Third Edition	Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof Enclosure “d”
CAN/CSA C22.2 No. 60079-26: 16	Explosive atmosphere – Part 26: Equipment with Equipment Protection Level (EPL) Ga (IEC 60079-26:2014, MOD)
IEC 60079-27: 2005 Ed.1	Fieldbus intrinsically safe concept (FISCO) and Fieldbus non-incendive concept (FNICO) – Edition 1 (used as a guide)
UL 61010-1 3rd ed (Rev. Nov 15, 2024)	UL Standard for Safety Requirements for Electrical Equipment For Measurement, Control, and Laboratory Use; Part 1: General Requirements
ANSI/UL 913-2022 Eighth Edition	Intrinsically Safe and Associated Apparatus For Use In Class I, II, and III, Division 1, Hazardous (Classified)
UL 50E: 2015 - Second Edition	Enclosures for Electrical Equipment, Environmental Considerations
UL 1203:2006 – Fourth Edition	Explosion-Proof and Dust-Ignition-Proof Class I, II, and III, Division 1, Hazardous (Classified)
ANSI/UL 60079-0:2020 - Seventh Edition - Including revisions through July 19, 2024	Explosive Atmospheres – Part 0: Equipment – General Requirements
ANSI/UL 60079-1-2020 Seventh Edition	Explosive Atmospheres – Part 1: Equipment Protection by Flameproof Enclosures “d”
ANSI/UL 60079-11-2018 - Sixth Edition	Explosive Atmospheres – Part 11: Equipment protection by Intrinsic safety „i“
UL 60079-26-2017 (R2022) Third Edition	Explosive Atmosphere – Part 26: Equipment with Equipment Protection Level (EPL) Ga

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Part B:

CAN/CSA C22.2 No. 61010-1-12, UPD1:2015, UPD2:2016, AMD1:2018, UPD3:2023, UPD4:2024	Safety requirements for electrical equipment for measurement, control, and laboratory use — Part 1: General requirements - Third Edition
CSA C22.2 No. 25:17 (R 2022)	Enclosures for Use in Class II Groups E, F and G Hazardous Locations
CSA C22.2 No. 94.2:15 - Second Edition	Enclosures for Electrical Equipment, Environmental Considerations
CSA C22.2 No. 60079-0:19 - Fourth Edition	Electrical Apparatus for Explosive Gas Atmospheres – Part 0: General Requirements
CAN/CSA C22.2 No. 60079-11:14 (R2023)	Electrical apparatus for explosive gas atmospheres - Part 11: intrinsic safety “i”
CSA C22.2 No. 60079-31:15 - Second Edition	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure “t”
FM 3600: 2022	Approval Standard for Electrical Equipment for Use in Hazardous Locations – General Requirements
FM 3616: 2022	Approval Standard for Dust-Ignitionproof Electrical Equipment General Requirements
UL 61010-1 3rd ed (Rev. Nov 15, 2024)	UL Standard for Safety Requirements for Electrical Equipment For Measurement, Control, and Laboratory Use; Part 1: General Requirements
UL 50E: 2015 - Second Edition	Enclosures for Electrical Equipment, Environmental Considerations
ANSI/UL 60079-0:2020 - Seventh Edition - Including revisions through July 19, 2024	Explosive Atmospheres – Part 0: Equipment – General Requirements
ANSI/UL 60079-11-2018 - Sixth Edition	Explosive Atmospheres – Part 11: Equipment protection by Intrinsic safety „i“
UL 60079-31:2015 - Second Edition - Including revisions through November 18, 2024	Explosive atmospheres - Part 31: Equipment Dust Ignition Protection by Enclosure “t”

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.

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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

Submittor's identification;
Model designation or equivalent;
Complete electrical ratings (included in the Safety instructions);
Temperature code;
Maximum Working Pressure;
Enclosure Type 4X/6P and IP66/68.
Maximum ambient temperature as appropriate (included in the Safety instructions);
Entity parameters (For Class I, Division 1 product) (included in the Safety instructions);
Applicable hazardous locations designation;
FISCO field device markings
CSA Certificate Number: CSA 15.70015745X
Date code or equivalent;
"WARNING - DO NOT OPEN WHEN AN EXPLOSIVE GAS ATMOSPHERE IS PRESENT or OPEN CIRCUIT BEFORE REMOVING COVER or KEEP COVERS TIGHT WHILE CIRCUITS ARE ALIVE"
Caution re Electrostatic Charge.

REQUIRED METHOD OF MARKING

The marking shall be permanent, such as a 0.5 mm thick metal nameplate secured by drive pins or screws in bottomed holes, cast, etched or engraved, or CSA Accepted adhesive nameplates manufactured by Brady, P/N B-423 or Schreiner. P/N Polyscript Carbo ACE SA, mounted to bare stainless steel, Valox 357 polymer or painted aluminum. Optionally: Self- adhesive Color Laser Foil KL Black/White from Schreiner

Note - Jurisdictions in Canada may require these markings to also be provided in French language. It is the responsibility of the manufacturer to provide bilingual marking, where applicable, in accordance with the requirements of the Provincial Regulatory Authorities. It is the responsibility of the manufacturer to determine this requirement and have bilingual wording added to the "Markings".

Notes:

Products certified under Class C225802, C225882, C225803, C225883, C225804 and 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: 70015745 **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
80308743	September 21, 2026	Update to cCSAus report 70015745, to modify the model nomenclature to "Additional certificates, tests and options: The feature describes certificates required by the customer, additional tests, and further options….." from "Additional certificates: One digit variable designating any type of test certificate required by the customer" under "s" for Type code VEGABAR 81, 82, 86, 87 and under "r" for Type code VEGABAR 83.
80247637	March 02, 2026	Update cCSAus report 70015745 for VEGABAR 8* Series pressure transmitter to accomplish the following: 1. To update the standards to the latest edition, partially based on IECEx ExTRs. 2. Removal of CSA C22.2 No. 157:1992 (R2006) from the applicable requirements as per certification notice Hazardous Locations Products No. 23. 3. To add display and adjustment module (Ex-Component), model PLICSCOM(*).4B/W*. 4. Update of CAN/CSA Std. C22.2 No. 60079-11:12 to the latest CAN/CSA-C22.2 No. 60079-11:14 5. Update of UL Std. No. 913 (4th Ed.) to ANSI/UL 913-2022 Eighth Edition.
80190820	2024-09-24	Update to Report 70015745 to accomplish the following: 1. To update the standard CSA C22.2 No. 25: 1996 (R 2004) to CSA C22.2 No. 25-17 (R 2022) as per certification notice Hazardous Locations No. 35. 2. To update the standard CSA C22.2 No. 30: M1986 (R 2003) to CSA C22.2 No. 30-20 as per certification notice Hazardous Locations Products No. 38. 3. To update the standards CAN/CSA Std. C22.2 No. 60079-0:12 and CAN/CSA Std. C22.2 No. 60079-1:12 to CAN/CSA C22.2 No. 60079-0:2019 and CAN/CSA C22.2 No. 60079-1:2016 respectively. 4. To update the standards CSA C22.2 No. 94: 1991 (R 2006) and UL Std. No. 50 (Edition 10) to CSA C22.2 No. 94.2-15 and UL 50E-2015, Second Edition as per certification notice Enclosures No. 3. 5. To update the descriptive documents to recognize changes to IP rating done under previous project 80188302 and to add missing housing option to type code.
80188302	2024-05-02	Corrections to report and certificate per FIR FC# 153858 dated September 26, 2023, regarding ingress protection updates.

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80116797	2022-09-02	Update to report 70015745 with revised drawings per FIR dated Aug. 31, 2021, FC# 153858.
70215797	2019-06-27	Update to Report 70015745 for HAZLOC certification of VEGABAR8x for North America. Addition of PLICSCOM3 assessed under Custom Testing Service Test Report No. 153857-70160903 to the CSA Test Report 70015745. Thermal data adjustments to accommodate PLICSCOM3 temperature rise. Deletion of plastic housing from the model code.
70084309	2016-06-15	Update to Report 70015745 to add dust ignition method of protection, drawings, and additional approvals per VEGA's nomenclature. This is to fulfill the requirements of project 70038891 which was created under a Master Contract number which is no longer active.
70015745	2015-04-10	Original Certification of VEGABAR 80 series.

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