Features

- · Hydrostatic pressure sensor for level measuring of water
- Measuring ranges: 0 bar ... 0.1 bar to 0 bar ... 20 bar
- · High-precision and long-term stability ceramic measuring cell
- · High mechanical resistance to overload and aggressive media
- Permanent hermetically sealed level probe
- ٠ Electronics comprising 4 mA ... 20 mA output signal and integrated overvoltage protection
- · Simultaneous level and temperature measuring by optional integrated Pt100 resistance thermometer
- · KTW and NSF drinking water approval

Function

The level probe LGC is a hydrostatic pressure sensor for measuring the level. One outstanding feature of these level probe is their mechanical and electrical durability. The embedded electronics, a heavy-duty conical cable seal and a 2-filter system guarantee a perfect seal resistant to any climatic conditions.

Highly accurate ceramic pressure sensors with longterm stability guarantee reliable and secure filling level measurement. With an external diameter of 22 mm (0.9 in), integrated temperature sensor and extensive drinking water certificates, the level probe is ideally suited for fresh water and drinking water applications. The front-flush ceramic measuring cell also allows reliable applications of the level probe in wastewater.

With extensive measurement accessories, like display, power supply and evaluation device, solutions for all typical applications in fresh water and wastewater are guaranteed.



re compensating tube obe LGC 225 40 Ø22 ± 0.1





Connection



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General specifications	
Measuring method	Level control with ceramic measuring cell (dry measuring cell). The pressure acts directly on the rugged ceramic membrane of the device and causes it to move by about max. 0.005 mm. The effects of air pressure on the liquid surface are transferred via a pressure compensating tube through the extension cable to the rear of the ceramic membrane and compensated. Pressure-dependent changes in capacitance caused by membrane movement are measured at the electrodes of the ceramic carrier. The electronics convert the movement into a pressure-proportional signal which is linear to the medium level.
Equipment architecture	The measuring system consists of a level probe and a SMART transmitter power supply (e. g. KFD2-STC4-Ex1) with a supply voltage between 10 30 V DC.
Construction type	device with rod probe
Supply	
Rated voltage U _r	level probe: 10 30 V DC, Ex nA and Ex ia: 10 30 V DC Pt100 (optional): 10 30 V DC, Ex nA: 10 30 V DC temperature transmitter (optional): 8 35 V DC
Current consumption	level probe: max. \leq 22.5 mA, min. \geq 3.5 mA Pt100 (optional): \leq 0.6 mA temperature transmitter (optional): Pt100 via temperature transmitter \leq 0.6 mA
Power consumption	level probe and Pt100 (optional): \leq 0.675 W at 30 V DC temperature transmitter (optional): \leq 0.875 W at 35 V DC
Reverse polarity protection	Reverse voltage protection is integrated in level probe and in the temperature transmitter LGC-Z13 changing the polarities has no impact on operation.
Residual ripple	level probe: 4 20 mA, 2-wire for hydrostatic pressure measured value Pt100 (optional): temperature-dependent resistance value temperature transmitter (optional): 4 20 mA for temperature measured value, 2-wire
Electrical specifications	
Surge protection	level probe and Pt100 (optional): integrated overvoltage protection to EN 61000-4-5 \leq 1.2 kV, install overvoltage protection \geq 1.2 kV, external if necessary temperature transmitter (optional): install overvoltage protection, external if necessary
Input	
Input signal	level probe: change in capacitance Pt100 (optional): change in resistance temperature head transmitter (optional): Pt100 resistance signal, 4-wire
Measured variable	level probe: hydrostatic pressure of a liquid Pt100 (optional): temperature temperature head transmitter (optional): temperature
Measurement range	level probe: - nine fixed pressure measuring ranges in bar, see ordering information - customer-specific measuring ranges, factory-calibrated Pt100 (optional): temperature measurement from -10 70 °C (263 343 K)
Output	
Load	level probe and Pt100 (optional): $R_{total} \le (U_b - 10 V)/0.0225 A - 2 x 0.09 \Omega/m x I - R_{add}$ temperature transmitter (optional): $R_{total} \le (U_b - 8 V)/0.025 A - R_{add}$ - $R_{total} = max$. load resistance [Ω] - R_{add} = additional resistances such as resistance of evaluating device and/or display instrument, line resistance [Ω] - U_b = supply voltage [V]
Output signal	level probe: 4 20 mA, 2-wire for hydrostatic pressure measured value Pt100 (optional): temperature-dependent resistance value temperature transmitter (optional): 4 20 mA for temperature measured value, 2-wire
Directive conformity	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61326-1:2013, EN 61326-2-3:2013
Conformity	
Electromagnetic compatibility	NE 21
Degree of protection	IEC 60529:2001
Measurement accuracy	
Reference operating conditions	level probe and Pt100 (optional): acc. to DIN EN 60770, $T_{amb} = 25 ^{\circ}C (296 ^{\circ}K)$ temperature transmitter (optional): calibration temperature 23 $^{\circ}C \pm 5 ^{\circ}K (296 ^{\circ}K \pm 5 ^{\circ}K)$
Accuracy	range value (URV) Pt100 (optional): max. \pm 0.7 K (class B to DIN EN 60751) temperature transmitter (optional): \pm 0.2 K, with Pt100: max. \pm 0.9 K
Long-term drift	level probe and Pt100 (optional): \pm 0.1 % of upper range value (URL) per year temperature transmitter (optional): \pm 0.1 K per year
Influence of medium temperature	 thermal change in zero signal and output span for typical temperature range 0 30 °C (273 303 K): ± 0.4 % (± 0.5 %)* of the measuring span thermal change in zero signal and output span for the total medium temperature range -10 70 °C (263 343 K): ± 1.0 % (± 1.5 %)* of the measuring span (Pt100) temperature coefficient (TK) in zero signal and output span: 0.15 %/10 K (0.3 %/10 K)* of the measuring span (Pt100 and temperature transmitter) *specifications for sensors 0.1 bar and 0.6 bar

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Rise time	level probe: 80 ms, Pt100 (optional): 160 s
Warm-up time	level probe and Pt100 (optional): 20 ms, temperature transmitter (optional): 4 s
Adjustment time	level ptobe: 150 ms, Pt100 (optional): 300 s
Operating conditions	
Installation conditions	
Installation position	vertical from above
Process conditions	
Medium temperature	 level probe and Pt100 (optional): -10 70 °C (263 343 K), for Ex devices see safety information temperature transmitter (optional): -40 85 °C (233 358 K) = ambient temperature, install temperature transmitter outside medium
Medium temperature limits	level probe and Pt100 (optional): -20 70 °C (253 343 K) You may operate the level probe in this temperature range. The specification can then be exceeded, e.g. measuring accuracy, see also DIN 16086.
Ambient conditions	
Ambient temperature	level probe and Pt100 (optional): -10 70 °C (263 343 K) = medium temperature temperature transmitter (optional): -40 85 °C (233 358 K)
Storage temperature	level probe and Pt100 (optional): -40 80 °C (233 353 K) temperature transmitter (optional): -40 100 °C (233 373 K)
Mechanical specifications	
Degree of protection	level probe and Pt100 (optional): IP68, permanently hermetically sealed, optional terminal box IP66/IP67 temperature head transmitter (optional): IP00, moisture condensation permissible, when mounted in the optional terminal box IP66/IP67
Connection	3 terminals in terminal box (accessory) as standard 4 terminals in terminal block (accessory), conductor cross section 0.08 2.5 mm ²
Material	level probe: 1.4435/316L process ceramic: Al ₂ O ₃ aluminum oxide ceramic seal (internal): EPDM or Viton protective cap: PE-HD (high-density polyethylene) terminal box LGC-Z11: PC (polycarbonate) temperature transmitter LGC-Z13: housing PC (polycarbonate) extension cable PE: insulation PE (polyethylene), copper wires, twisted extension cable FEP: insulation FEP (fluorinated ethylene propylene), copper wires, twisted
Cabla	lovel probe:
Cable	 commercially available instrument cable terminals, terminal housing level probe: 0.08 2.5 mm² Pt100 (optional): If the Pt100 signal is directly connected to a display and/or evaluation unit, we recommend the use of a shielded cable. temperature transmitter (optional):
	 connection transmitter: max. 1.75 mm² probe connection (extension cable): total outer diameter: 8.0 mm ± 0.25 mm level probe: 3 x 0.2 mm² and pressure compensation tube with PTFE filter Pt100 (optional): 7 x 0.2 mm² and pressure compensation tube with PTFE filter pressure compensation tube with PTFE filter: external diameter Ø2.5 mm, internal diameter Ø1.5 mm
Mass	 connection transmitter: max. 1.75 mm² probe connection (extension cable): total outer diameter: 8.0 mm ± 0.25 mm level probe: 3 x 0.2 mm² and pressure compensation tube with PTFE filter Pt100 (optional): 7 x 0.2 mm² and pressure compensation tube with PTFE filter pressure compensation tube with PTFE filter: external diameter Ø2.5 mm, internal diameter Ø1.5 mm level probe: 290 g terminal box LGC-Z11: 235 g temperature transmitter LGC-Z13: 40 g extension cable PE: 52 g/m extension cable FEP: 108 g/m suspension clamp LGC-Z10: 170 g extension cable mounting screw LGC-Z14: 770 g extension cable mounting screw LGC-Z16: 724 g
Mass	 connection transmitter: max. 1.75 mm² probe connection (extension cable): total outer diameter: 8.0 mm ± 0.25 mm level probe: 3 x 0.2 mm² and pressure compensation tube with PTFE filter Pt100 (optional): 7 x 0.2 mm² and pressure compensation tube with PTFE filter pressure compensation tube with PTFE filter: external diameter Ø2.5 mm, internal diameter Ø1.5 mm level probe: 290 g terminal box LGC-Z11: 235 g temperature transmitter LGC-Z13: 40 g extension cable PE: 52 g/m extension cable FEP: 108 g/m suspension clamp LGC-Z10: 170 g extension cable mounting screw LGC-Z16: 724 g level probe: Ø22 x 240 mm (Ø0.9 x 9.5 inch) terminal housing LGC-Z11: 120 x 80 x 55 mm (4.7 x 3.15 x 2.2 inch) temperature transmitter LGC-Z13: Ø44 x 21 mm (1.7 x 0.8 inch) extension cable: 10 m (33 ft), 20 m (66 ft) or any length, can be cropped max. free suspended length (mechanical stability under load): 1000 m (3294 ft) max. length for non-Ex and EEx nA IIC T6, see section load max. length for EEx ia IIC T6: see related safety information (SI)
Mass Dimensions Data for application in connection with hazardous areas	 connection transmitter: max. 1.75 mm² probe connection (extension cable): total outer diameter: 8.0 mm ± 0.25 mm level probe: 3 x 0.2 mm² and pressure compensation tube with PTFE filter Pt100 (optional): 7 x 0.2 mm² and pressure compensation tube with PTFE filter pressure compensation tube with PTFE filter: external diameter Ø2.5 mm, internal diameter Ø1.5 mm level probe: 290 g terminal box LGC-Z11: 235 g temperature transmitter LGC-Z13: 40 g extension cable PE: 52 g/m extension cable FEP: 108 g/m suspension clamp LGC-Z10: 170 g extension cable mounting screw LGC-Z16: 724 g level probe: Ø22 x 240 mm (Ø0.9 x 9.5 inch) terminal housing LGC-Z11: 120 x 80 x 55 mm (4.7 x 3.15 x 2.2 inch) temperature transmitter LGC-Z13: Ø44 x 21 mm (1.7 x 0.8 inch) extension cable: 10 m (33 ft), 20 m (66 ft) or any length, can be cropped max. free suspended length (mechanical stability under load): 1000 m (3294 ft) max. length for EEx ia IIC T6: see related safety information (SI)
Mass Mass Dimensions Dimensions EU-Type Examination Certificate	 - connection transmitter: max. 1.75 mm² probe connection (extension cable): - total outer diameter: 8.0 mm ± 0.25 mm - level probe: 3 x 0.2 mm² and pressure compensation tube with PTFE filter - Prt100 (optional): 7 x 0.2 mm² and pressure compensation tube with PTFE filter - pressure compensation tube with PTFE filter: external diameter Ø2.5 mm, internal diameter Ø1.5 mm level probe: 290 g terminal box LGC-Z11: 235 g temperature transmitter LGC-Z13: 40 g extension cable PE: 52 g/m extension cable FE: 108 g/m suspension clamp LGC-Z10: 170 g extension cable mounting screw LGC-Z14: 770 g extension cable mounting screw LGC-Z16: 724 g level probe: Ø22 x 240 mm (Ø0.9 x 9.5 inch) terminal housing LGC-Z11: 120 x 80 x 55 mm (4.7 x 3.15 x 2.2 inch) terminal housing LGC-Z13: 044 x 21 mm (1.7 x 0.8 inch) extension cable: 10 m (33 ft), 20 m (66 ft) or any length, can be cropped - max. free suspended length (mechanical stability under load): 1000 m (3294 ft) - max. length for non-Ex and EEx nA IIC T6, see section load - max. length for EEx ia IIC T6: see related safety information (SI)
Mass Mass Dimensions Dimensions EU-Type Examination Certificate Marking	 connection transmitter: max. 1.75 mm² probe connection (extension cable): total outer diameter: 8.0 mm ± 0.25 mm level probe: 3 x 0.2 mm² and pressure compensation tube with PTFE filter P1100 (optional): 7 x 0.2 mm² and pressure compensation tube with PTFE filter pressure compensation tube with PTFE filter: external diameter Ø2.5 mm, internal diameter Ø1.5 mm level probe: 290 g terminal box LGC-Z11: 235 g temperature transmitter LGC-Z13: 40 g extension cable PE: 52 g/m extension cable PE: 52 g/m suspension clamp LGC-Z10: 170 g extension cable mounting screw LGC-Z16: 724 g level probe: Ø22 x 240 mm (Ø0.9 x 9.5 inch) terminal housing LGC-Z11: 120 x 80 x 55 mm (4.7 x 3.15 x 2.2 inch) termperature transmitter LGC-Z13: 044 x 21 mm (1.7 x 0.8 inch) extension cable: 10 m (33 ft), 20 m (66 ft) or any length, can be cropped max. length for non-Ex and EEx nA IIC T6, see section load max. length for EEx ia IIC T6: see related safety information (SI)
Mass Mass Dimensions Dimensions EU-Type Examination Certificate Marking Certificate	 connection transmitter: max. 1.75 mm² probe connection (extension cable): total outer diameter: 8.0 mm ± 0.25 mm level probe: 3 x 0.2 mm² and pressure compensation tube with PTFE filter Pt100 (optional): 7 x 0.2 mm² and pressure compensation tube with PTFE filter pressure compensation tube with PTFE filter: external diameter Ø2.5 mm, internal diameter Ø1.5 mm level probe: 290 g terminal box LGC-Z11: 235 g temperature transmitter LGC-Z13: 40 g extension cable PE: 52 g/m extension cable PE: 52 g/m extension cable PE: 52 g/m extension cable PE: 108 g/m suspension clamp LGC-Z10: 170 g extension cable mounting screw LGC-Z14: 770 g extension cable: 100 m (30 st), 20 m (66 ft) or any length, can be cropped max. free suspended length (mechanical stability under load): 1000 m (3294 ft) max. length for non-Ex and EEx nA IIC T6, see section load max. length for non-Ex and EEx nA IIC T6, see section load max. length for non-Ex and EEx nA IIC T6 see related safety information (SI) TÜV 01 ATEX 1749 (w) II 2G Ex ia IIC T6 Gb PF 16 CERT 1658 X
Mass Mass Dimensions Data for application in connection with hazardous areas EU-Type Examination Certificate Marking Certificate Marking	 connection transmitter: max. 1.75 mm² probe connection (extension cable): total outer diameter: 8.0 mm ± 0.25 mm level probe: 3 x 0.2 mm² and pressure compensation tube with PTFE filter Pt100 (optional): 7 x 0.2 mm² and pressure compensation tube with PTFE filter pressure compensation tube with PTFE filter: external diameter Ø2.5 mm, internal diameter Ø1.5 mm level probe: 290 g terminal box LGC-Z11: 235 g temperature transmitter LGC-Z13: 40 g extension cable PE: 52 g/m extension cable mounting screw LGC-Z14: 770 g extension cable in (Ø0.9 x 9.5 inch) terminal housing LGC-Z11: 120 x 80 x 55 mm (4.7 x 3.15 x 2.2 inch) temperature transmitter LGC-Z13: Ø44 x 21 mm (1.7 x 0.8 inch) extension cable: 10 m (33 ft), 20 m (66 ft) or any length, can be cropped max. Incgth for non-Ex and EEx nA IIC T6, see section load max. length for non-Ex and EEx nA IIC T6, see section load max. length for non-Ex and EEx nA IIC T6, see section load max. length for EEx ia IIC T6 Gb PF 16 CERT 1658 X (w) II 3G Ex nA IIC T6 Gc
Mass Mass Dimensions Data for application in connection with hazardous areas EU-Type Examination Certificate Marking Certificate Marking Directive conformity	 connection transmitter: max. 1.75 mm² probe connection (extension cable): total outer diameter: 8.0 mm ± 0.25 mm level probe: 3 x 0.2 mm² and pressure compensation tube with PTFE filter Pt100 (optional): 7 x 0.2 mm² and pressure compensation tube with PTFE filter pressure compensation tube with PTFE filter: external diameter Ø2.5 mm, internal diameter Ø1.5 mm level probe: 290 g terminal box LGC-Z11: 235 g temperature transmitter LGC-Z13: 40 g extension cable FEP: 108 g/m suspension cable FEP: 108 g/m suspension cable mounting screw LGC-Z14: 770 g extension cable mounting screw LGC-Z16: 724 g level probe: Ø22 x 240 mm (Ø0.9 x 9.5 inch) temperature transmitter LGC-Z13: Ø44 x 21 mm (1.7 x 3.15 x 2.2 inch) temperature transmitter LGC-Z13: Ø44 x 21 mm (1.7 x 0.8 inch) extension cable: 10 m (33 ft), 20 m (66 ft) or any length, can be cropped max. free suspended length (mechanical stability under load): 1000 m (3294 ft) max. length for non-Ex and EEx nA IIC T6; see section load max. length for EEx ia IIC T6: see related safety information (SI) TÜV 01 ATEX 1749 Iso II 2G Ex ia IIC T6 Gb PF 16 CERT 1658 X II 3G Ex nA IIC T6 Gc
Mass Mass Dimensions Data for application in connection with hazardous areas EU-Type Examination Certificate Marking Certificate Marking Directive conformity Directive 2014/34/EU	 connection transmitter: max. 1.75 mm² probe connection (extension cable): total outer diameter: 8.0 mm ± 0.25 mm level probe: 3 x 0.2 mm² and pressure compensation tube with PTFE filter Pt100 (optional): 7 x 0.2 mm² and pressure compensation tube with PTFE filter pressure compensation tube with PTFE filter: external diameter Ø2.5 mm, internal diameter Ø1.5 mm level probe: 290 g terminal box LGC-Z11: 235 g temperature transmitter LGC-Z13: 40 g extension cable PE: 52 g/m extension cable FEP: 108 g/m suspension cable FEP: 108 g/m suspension cable mounting screw LGC-Z16: 724 g level probe: Ø22 x 240 mm (Ø0.9 x 9.5 inch) temperature transmitter LGC-Z13: 044 x 21 mm (1.7 x 0.8 inch) extension cable: 10 m (33 th). 20 m (66 th) or any length, can be cropped max. free suspended length (mechanical stability under load): 1000 m (3294 th) max. length for non-Ex and EEx nA IIC T6, see section load max. length for EEx ia IIC T6: see related safety information (SI) TÚV 01 ATEX 1749 (b) II 2G Ex ia IIC T6 Gb PF 16 CERT 1658 X (c) II 3G Ex nA IIC T6 Gc

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Technical data		LGC
Mechanical load	extension cable:	
	- minimum bending radius: 120 mm (4.7 inch) - tensile strength: min. 950 N - cable extraction force: \geq 450 N - PE: approved for use with drinking water - resistance to UV light - cable resistance per wire: \leq 0.09 Ω/m	
Certificates and approvals		
Drinking water approval	KTW certificate and NSF approval	
General information		
Supplementary documentation	technical information (TI) manuals, brief instructions (BA, KA) instruction manuals (SI) control drawings (ZD)	
Supplementary information	EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see www.pepperl-fuchs.com.	
Accessories		
Optional accessories	LGC-Z10 mounting clamp, 1.4435/316L LGC-Z11, terminal box (IP65/IP67), PC LGC-Z12, additional weight 300 g, 1.4435/316L LGC-Z13, temperature transmitter, 2-wire, -20 80 °C LGC-Z14, cable mounting screw G with cylindrical threading G1-1/2A, 1.4301/304 LGC-Z15, terminal block with 4 terminals LGC-Z16, cable mounting screw N with tapered thread NPT1-1/2, 1.4301/304	

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Electrical connection



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Type Code

0 ∏

This overview does not mark options which are mutually exclusive. Option with * = on request/in preparation

Device	Device		
LGC	Level probe		
Maaka	wisel connection		
Mecha			
A			
G	without mechanical connection		
N	eable mounting corow NPT1 1/2 1 4201/204		
IN	cable mounting screw NP11-1/2, 1.4301/304		
Probe	tube		
Р	Ø29 mm, PPS		
S	Ø22 mm, 1.4435/316L		
Т	Ø22 mm, 1.4435/316L with drinking water approval		
Measu			
Hac			
H3M			
H3N			
НИ			
H4M			
H4N			
H2A			
H2C	$0 \text{ m} 2 \text{ m} \text{H}_2 \text{O}$		
H2D	0 m 4 m H ₂ O		
H2E	0 m 6 m H ₂ O		
НЗА	0 m 10 m H ₂ O		
H3C	0 m 20 m H ₂ O		
H3D	0 m 40 m H ₂ O		
H4A	0 m 100 m H ₂ O		
H4C	0 m 200 m H ₂ O		
P2L	0 psi 1.5 psi		
P2M	0 psi 3 psi		
P2N	0 psi 6 psi		
P3K	0 psi 10 psi		
P3L	0 psi 15 psi		
P3M	0 psi 30 psi		
P3N	0 psi 60 psi		
P4L	0 psi 150 psi		
P4M	0 psi 300 psi		
R1A	0 bar 0.1bar		
R1C	0 bar 0.2bar		
R1D	0 bar 0.4bar		
R1E	0 bar 0.6bar		
R2A	0 bar 1.0bar		
R2C	0 bar 2.0bar		
R2D	0 bar 4.0bar		
R3A	0 bar 10.0bar		
R3C	0 bar 20.0bar		
XXX	set in accordance with customer specification		
Seal			
1	Measurement cell sealing: Viton		
2	Measurement cell sealing: EPDM		
L	······································		



Extension cable			
2A	10 m, can be cropped, PE		
2C	20 m, can be cropped, PE		
2M	30 foot, can be cropped, PE		
2N	60 foot, can be cropped, PE		
ЗA	10 m, can be cropped, FEP		
3C	20 m, can be cropped, FEP		
ЗM	30 foot, can be cropped, FEP		
ЗN	60 foot, can be cropped, FEP		
4A	10 m, can be cropped, PUR		
4C	20 m, can be cropped, PUR		
4M	30 foot, can be cropped,PUR		
4N	60 foot, can be cropped, PUR		
CF	in foot, can be cropped, FEP		
СМ	in m, can be cropped, FEP		
CP	in foot, can be cropped, PUR		
XF	in foot, can be cropped, PE		
XM	in m, can be cropped, PE		
XP	in m, can be cropped, PUR		
Exten	sion cable length		
L	Specified length, for options CF, CM, CP, XF, XM, and XP		
∆dditi	onal equipment		
1	with integrated Pt100 temperature probe 4-wire		
2	terminal hox with filter		
3	pressure sensor with Pt100, 4-wire and terminal box with filter IP65/IP67		
4	pressure sensor with Pt100 -20 °C +80 °C temperature transmitter 4 mA 20 mA 2-wire in terminal box with filter IP65/IP67		
N	without additional equipment		
Appro	val		
C1	CSA. CLI. Div. 1. Group A-D. IS		
CG	CSA General Purnose		
E3	ATEX II 3G Ex nA IIC T6 Gc		
EX	ATEX II 2G Ex ia IIC T6 Gb		
F1	FM. Cl. I. Div. 1. Group A-D. IS		
NA	Version for non-hazardous area		

