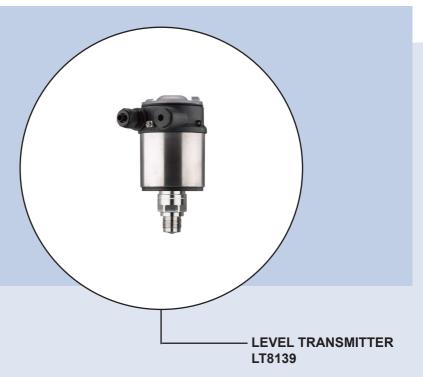
Safety instructions



Intrinsic safety "i"
Two-wire 4 ... 20 mA/HART







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Supplementary documentation:

- Operating Instructions LEVEL TRANSMITTER LT8139
- Quick setup guide LEVEL TRANSMITTER LT8139
- Certificate of Conformity IECEx PTB 20.0023 X (Document ID: 62654)

Editing status: 2020-07-23



1 Area of applicability

These safety instructions apply to the LEVEL TRANSMITTER LT8139 of type series:

•

REVEL TRANSMITTER LT8139(*).IC****HXKM***

V∰th the electronics versions:

• H - Two-wire 4 ... 20 mA/HART

Agcording to Certificate of Conformity IECEx PTB 20.0023 X (certificate number on the type label) and for all instruments with safety instruction 62563.

The classification as well as the respective standards are stated in the Certificate of Conformity:

- EC 60079-0: 2017 (Edition 7.0)
- 💆 IEC 60079-11: 2011 (Edition 6.0)
- ē IEC 60079-26: 2014 (Edition 3.0)

Type of protection marking:

 $\bullet \overset{\circ}{\underline{g}} \overset{\overset}{\underline{g}} \overset{\overset}{\underline{$

Important specification in the type code

່ວ່ LĒVEL TRANSMITTER LT8139(*).abcefghijklm

_6.	7) Position Feature Description								
	ition	Feature	Description						
ao	Scope	I	IECEx / World-wide						
/ērsiðn:	Approval	С	Ex ia IIC T6T1 Ga, Ga/Gb, Gb						
Z		В	Plastic horn antenna / without						
		D	Plastic horn antenna / with						
1000509890		Т	Thread with integrated horn antenna / without						
	Antenna version / Second Line of Defense	U	Thread with integrated horn antenna / with						
1001		F	Flange with encapsulated antenna system / without						
i		G	Flange with encapsulated antenna system / with						
MAN		Н	Hygienic fitting with encapsulated antenna system / without						
		I	Hygienic fitting with encapsulated antenna system / with						
de	Process fitting	**	Two-digit alphanumerical code for threaded connections, pipe connections and industrial flanges acc. to ASME, BS, DIN, EN, GOST, HG/T, JIS and for other international, national or industrial standards, regulations or standards, with suitable pressure and temperature specifications						



Pos	ition	Feature	Description			
21		Α	PEEK / FKM (SHS FPM 70C3 GLT) / -40 +130 °C			
50		В	PEEK / FKM (SHS FPM 70C3 GLT) / -40 +200 °C			
8		G	PEEK / FKM (Kalrez 6375) / -20 +130 °C			
15		Н	PEEK / FKM (Kalrez 6375) / -20 +200 °C			
ted		F	PEEK / EPDM (A+P 70.10-02) / -40 +130 °C			
ij.		R	PEEK / FFKM (Kalrez 6230) / -15 +130 °C			
<u></u>		s	PEEK / FFKM (Kalrez 6230) / -15 +200 °C			
ber		Т	PTFE / FFKM (Kalrez 6230) / -15 +130 °C			
ege		U	PTFE / FKM (75,5/VA75F) / -20 +130 °C			
eige		V	PTFE / EPDM (70.10-02) / -20 +130 °C			
f <u></u>	Material / Seal / Process temperature	I	PTFE / PTFE / -40 +130 °C			
sed	tomporataro	J	PTFE / PTFE / -40 +200 °C			
ea ea		w	PTFE / PTFE / -196 +200 °C			
(re		K	PTFE (8 mm) / PTFE / -40 +130 °C			
교	Status: KL (released treigegeben) printed: 15.09.2021 Material / Seal / Process temperature	L	PTFE (8 mm) / PTFE / -40 +200 °C			
:Sn:		Υ	PTFE (8 mm) / PTFE / -196 +200 °C			
Stat		Р	PFA (8 mm) / PFA / -40 +130 °C			
		Q	PFA (8 mm) / PFA / -40 +200 °C			
Version: -		С	PP / PP / -40 +80 °C			
ers		D	PP / FKM (SHS FPM 70C3 GLT) / -40 +80 °C			
		E	PP / EPDM (COG AP310) / -40 +80 °C			
<u>ح</u>	Electronics	Н	Two-wire, 4 20 mA/HART, U = 9.6 30 V DC			
7:000509830	Supplementary electronics	x	without			
005	Housing / Protection	К	Plastic single chamber / IP66/IP67			
	Cable entry / Connection	М	M20 x 1.5 / Cable gland PA black (ø5-9 mm), standard			
MAN	Indicating/adjustment	X	without			
ľΣ	module	Α	mounted			
		Х	without			
ı	Additional equipment	V	Purging connection with reflux valve			
		*	One-digit alphanumeric code for further options			
m	Certificates	Х	No			
	- Co. tilloutes	М	Yes			

In the following, all above mentioned versions are called LEVEL TRANSMITTER LT8139. If parts of these safety instructions refer only to certain versions, then these will be mentioned explicitly with their type code.

3 General information

The LEVEL TRANSMITTER LT8139 in ignition protection type intrinsic safety "i" are used for detection of the distance between medium surface and sensor by means of high frequency, electromagnetic waves in the GHz range.

The electronics uses the running time of the signals reflected by the medium surface to calculate



the distance to the medium surface.

The LEVEL TRANSMITTER LT8139 consist of an electronics housing, a process connection elenet and a sensor or an antenna.

Time LEVEL TRANSMITTER LT8139 are suitable for applications in hazardous atmospheres of all combustible materials of explosion groups IIA, IIB and IIC.

Tibe LEVEL TRANSMITTER LT8139 are suitable for applications requiring EPL Ga, EPL Ga/Gb or EPL Gb instruments.

4_€ Application area

ELL Ga instrument

TEC LEVEL TRANSMITTER LT8139 with the mechanical fixing element are installed in hazardous are as of zone 0 requiring EPL Ga instruments.

ERL Ga/Gb instrument

The LEVEL TRANSMITTER LT8139 with mechanical fixing element are installed in hazardous are as of zone 1 requiring EPL Gb instruments. The mechanical fixing element, process connection element is installed in the separating wall, which separates areas requiring EPL Gb or EPL Ga instruments. The sensor measuring system is installed in hazardous areas of zone 0 requiring EPL Ga instruments.

EFL Gb instrument

The LEVEL TRANSMITTER LT8139 with the mechanical fixing element are installed in hazardous as a sof zone 1 requiring EPL Gb instruments.

<u>.s</u>				
\rightarrow	Instrument	EPL Gb	EPL Ga/Gb	EPL Ga
В	Ex Zone 1	9.0		
1000509890	EX	•	4	
10	Ex Zone 0			
MAN	EX			

5 Specific conditions of use ("X" identification)

The following overview is listing all special properties of LEVEL TRANSMITTER LT8139, which make a labelling with the symbol "X" behind the certificate number necessary.

Electrostatic charging (ESD)

You can find the details in chapter " Electrostatic charging (ESD)" of these safety instructions.

Ambient temperature

The ambient temperature range stipulated in IEC 60079-0 can be limited.

You can find the details in chapter " Thermal data" of these safety instructions.

Impact and friction sparks

The LEVEL TRANSMITTER LT8139 in light metal versions (e.g. aluminium, titanium, zircon) must be mounted in such a way that sparks from impact and friction between light metals and steel (ex-



cept stainless steel, if the presence of rust particles can be excluded) cannot occur.

Non-grounded, metallic parts

Resistance between aluminium housing to metal measuring point identification plate is > 109 Ohm.

The capacitance of the metal measuring point identification plate was measured as follows:

Measurement loop identification label	Capacitance
x 23 mm (standard)	21 pF
1 0 0 x 30 mm	52 pF
7€ x 47 mm	61 pF

The capacitance of the metal housing was measured with 31 pF.

6 Additional instructions for safe operation

- © Components for installation and connection not included in the approval documents are only permitted if these correspond technically to the latest standard mentioned on the cover sheet.

 They must be suitable for the application conditions and have a separate certificate. The special ☐ conditions of the components must be noted and if necessary, the components must be integrated in the type test. This applies also to the components already mentioned in the technical description.
- The operator must ensure that the medium temperature in the EPL Ga range within the process vessel is not higher than 80 % of the self-ignition temperature of the concerned medium (in °C) and does not exceed the max. permissible flange temperature depending on the temperature class. The parts of the level measuring instrument which during operation are in conta flammable products, must be integrated in the periodic overpressure test of the plant. and does not exceed the max, permissible flange temperature depending on the temperature class. The parts of the level measuring instrument which during operation are in contact with
- If parts of the LEVEL TRANSMITTER LT8139 within the EPL Ga area are in contact with the medium and made of a material with an electrical conductivity of less than 10-8 S/m, a min. 6 conductivity of the measured substance of at least 10-8 S/m must be ensured to avoid danger caused by electrostatic charge. If this is not possible, the level measuring instrument must not be used if there are strong charge-generating processes exist, such as e.g. automatic friction and caused by electrostatic charge. If this is not possible, the level measuring instrument must not be separating processing, sparkling electrons etc. Particularly the antenna of the level measuring instrument must not be mounted in the pneumatic flow rate.
- The LEVEL TRANSMITTER LT8139 must be installed in such a way that sensor (antenna) does not touch the vessel wall. Especially the inner tank structure, the flow conditions in the tank and the antenna length must be taken into account.
- The installation of the antenna of LEVEL TRANSMITTER LT8139(*).*C****H****** with instrument category 1 must be only carried out with process pressures between 0.8 and 1.1 bar.

For device category 2 the following process pressures are applicable depending on the antenna version:

LEVEL TRANSMITTER LT8139	Version	Process pressure	
Plastic horn antenna	LT8139(*).*CB/D**C/D/EH*****	-1 +2 bar	
Thread with integrated horn antenna	LT8139(*).*CT/U**A/FH*****		
	LT8139(*).*CT/U**GH*****		
	LT8139(*).*CT/U**RH*****	-1 +20 bar	
	LT8139(*).*CT/U**BH*****	-1 +20 bai	
	LT8139(*).*CT/U**HH*****		
	LT8139(*).*CT/U**SH*****		



LEVEL TRANSMITTER LT8139	Version	Process pressure	
स्वातु with encapsulated antenna system	LT8139(*).*CF/G**I/K/PH*****	-1 +25 bar	
.20	LT8139(*).*CF/G**J/L/QH*****	-1 +25 bai	
Pange with encapsulated antenna system (we temperature version)	LT8139(*).*CF/G**W/YH*****	-1 +25 bar	
Begienic fitting with encapsulated anten-	LT8139(*).*CH/I**I/T/U/VH*****	-1 +16 bar	
n <u>⊆</u> system	LT8139(*).*CH/I**JH*****	-1 +10 bai	

- For process pressures outside the standard atmospheric conditions of 80 kPa (0.8 bar) to 110 kPa (1.1 bar) additional requirements can be valid.
- To the constructive version of the rinsing connection it must be ensured that when using in the protection IP67.

 • 20 In the version with ball valve it must be ensured that before separating the flange connection, the up valve must be closed. EPL Ga/Gb area, protection IP67 is ensured at the connection to the reflux valve. After removal

Connection conditions

- ii Unused openings must be covered. The red thread or/dust covers screwed in when the instruments are shipped (depending on the version) must be removed before setup and replaced by σ cable entries or closing screws suitable for the respective ignition protection type and IP protec-
- •5 The connection cables of LEVEL TRANSMITTER LT8139 must be connected in a housing meeting the requirements of the accepted ignime. Section 1, if the connection is located in the hazardous area meeting the requirements of the accepted ignition protection type according to IEC 60079-0,
- The connection cable of LEVEL TRANSMITTER LT8139 has to be wired fix and in such a way that damages can be excluded
- that damages can be excluded

 8 If the temperature at the entry parts exceeds 70 °C, temperature-resistant connection cables

 8 must be used

 10 The LEVEL TRANSMITTER LT8139 must be integrated in the local potential equalization of the hazardous areas (contact resistor ≤ 1 MΩ)
- Use the instrument only in media against which the wetted parts are sufficiently resistant
- If necessary, a suitable overvoltage arrester can be connected in front of the LEVEL TRANSMITTER LT8139

7 Important information for mounting and maintenance

General instructions

The following requirements must be fulfilled for mounting, electrical installation, setup and maintenance of the instrument:

- The staff must be qualified according the respective tasks
- The staff must be trained in explosion protection
- The staff must be familiar with the respectively valid regulations, e.g. planning and installation acc. to IEC 60079-14
- Make sure when working on the instrument (mounting, installation, maintenance) that there is no explosive atmosphere present, the supply circuits should be voltage-free, if possible.
- The instrument has to be mounted according to the manufacturer specifications, the Certificate of Conformity and the valid regulations and standards
- Modifications on the instrument can influence the explosion protection and hence the safety, therefore repairs are not permitted to be conducted by the end user
- Modifications must only be carried out by authorized employees



- Use only approved spare parts
- Components for installation and connection not included in the approval documents are only permitted if these correspond technically to the latest standard mentioned on the cover sheet. They must be suitable for the application conditions and have a separate certificate. The special conditions of the components must be noted and if necessary, the components must be integrated in the type test. This applies also to the components already mentioned in the technical description.
- description.

 description.

 Vessel installations and probable flow must be taken into account

Mounting

Keep in mind for instrument mounting

- Mechanical damage on the instrument must be avoided
- P Mechanical friction must be avoided
- Process connections separating two areas of different Ex-zones must comply to valid regulations and standards and the protection rating must be in conformity to IEC 60529.
- Occupied on the type label

Maintenance

To ensure the functionality of the device, periodic visual inspection is recommended for:

- to Secure mounting
- No mechanical damages or corrosion
- :- Worn or otherwise damaged cables
- $\bullet \frac{\overline{Q}}{R}$ No loose connections of the line connections, equipotential bonding connections
- Torrect and clearly marked cable connections

Tze parts of the LEVEL TRANSMITTER LT8139 being in contact with flammable media during operation must be included in the periodic overpressure test of the plant.

Potential equalization/Grounding

- S Integrate the instruments into the local potential equalisation, e.g. via the internal or external earth terminal
- The potential equalization terminal must be secured against loosening and twisting f grounding of the cable screening is necessary, this must be carried out acc. to the valid standards and regulations, e.g. acc. to IEC 60079-14

9 Electrostatic charging (ESD)

In case of instrument versions with electrostatically chargeable plastic parts, the danger of electrostatic charging and discharging must be taken into account!

The following parts can charge and discharge:

- Lacquered housing version or alternative special lacquering
- Plastic housing, plastic housing parts
- Metal housing with inspection window
- Plastic process fittings
- Plastic-coated process fittings and/or plastic-coated sensors
- Connection cable for separate versions
- Type labe
- Isolated metallic labels (measuring point identification plate)

Take note in case of danger of electrostatic charges:

Avoid friction on the surfaces



Do not dry clean the surfaces

The instruments must be mounted/installed in such a way that the following can be ruled out:

•N electrostatic charges during operation, maintenance and cleaning.

Process-related electrostatic charges, e.g. by measuring media flowing past

The warning label indicates danger: **B**geben) printed:

WARNING - POTENTIAL ELECTROSTATION CHARGING HAZARD - SEE INSTRUCTIONS

Electrical data

The electrical data listed in the following are valid for:

LEVEL TRANSMITTER LT8139(*).IC/O/U****HXKM****(*)(*)

If then the LEVEL TRANSMITTER LT8139 is mentioned, it is valid for the above listed versions of LEVEL TRANSMITTER LT8139.

<u> </u>					
≨upply and signal circuit:					
Tigrminals 1[+], 2[-] in electronics compartment of the	In type of protection intrinsic safety Ex ia IIC				
smgle chamber housing တို ဝႏ	For connection to a certified, intrinsically safe circuit with linear characteristics:				
Terminals 1[+], 2[-] in connection compartment of the capuble chamber housing	● U _i = 30 V ● I _i = 131 mA ● P _i = 983 mW The effective internal capacitance C _i is negligibly small.				
	The effective internal inductance is $L_i \le 10 \mu H$.				
0					
Rent module:					
Pring contacts in electronics or connection compart-	In type of protection intrinsic safety Ex ia IIC				
ment Z V	Only for connection to the corresponding display and adjustment module AB-MODUL-BUERKERT resp. AB-MODUL-B1 (IECEx TUN 19.0010 U).				

- The intrinsically safe supply and signal circuits are galvanically separated from parts that can be grounded.
- For applications requiring instruments of EPL Gb, the intrinsically safe power supply and signal circuit can correspond to protection class ia or ib. For connection to a circuit with protection class ib, the ignition protection type identification is Ex ib IIC T6 Gb.
- For applications requiring instruments of type EPL Ga or EPL Ga/Gb, the intrinsically safe power supply and signal circuit must correspond to protection class ia.
- For applications requiring EPL Ga resp. EPL Ga/Gb instruments the LEVEL TRANSMITTER LT8139 is preferably connected to appropriate instruments with electrically isolated, intrinsically safe circuits.

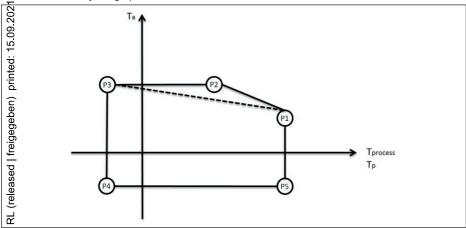
Thermal data 11

The permissible operating temperatures without explosion-endangered atmosphere are mentioned in the respective manufacturer instructions, e.g. operating instructions manuals.

The classification of the temperature classes of the different LEVEL TRANSMITTER LT8139 versions is specified in form of tables. The tables contain the distinctive points P1 ... P5 of the graph



shown below. The instrument may be operated in all operating points which are within the the points P1 ... P5 defined by the graph.



Fighthermore it must be observed that the graph defined by the points P1 ... P5 was determined for instruments with a permissible process temperature of up to +195 °C with an isolation (heat conductance of 0.05 W/mK with 2 cm thick insulation). Two layers of insulation material with a thickness og cm each were attached from the tank surface with the mentioned heat conductance.

In tuments for process temperatures of max. +80 °C or +130 °C were not isolated to determine pents P1 ... P5.

∠ T⊌lass - LEVEL TRANSMITTER LT8139 for process temperatures up to +80 °C

The following temperature tables are valid for:

LEVEL TRANSMITTER LT8139(*).**B/D**C/D/EH******

If en the LEVEL TRANSMITTER LT8139 is mentioned, it is valid for the above listed versions of LEVEL TRANSMITTER LT8139.

EL Ga instrument

Fa applications requiring EPL Ga instruments, the process pressure of the media must be between 0.8 ... 1.1 bar.

	Aluminium housing - Antenna in Zone 0 and housing in Zone 0										
	Tp - P1 - Ta		Tp - P2 - Ta		Tp - P3 - Ta		Tp - P4 - Ta		Tp - P5 - Ta		
T6	+60 °C	+43 °C			-20 °C	+56 °C	-20 °C	-20 °C	+60 °C	-20 °C	
T5 T1	+60 °C	+60 °C			-20 °C	+60 °C	-20 °C	-20 °C	+60 °C	-20 °C	

	Stainles	Stainless steel housing (precision casting) - Antenna in Zone 0 and housing in Zone 0											
	Tp - P1 - Ta		Tp - P2 - Ta		Tp - P3 - Ta		Tp - P4 - Ta		Tp - P5 - Ta				
T6	+60 °C	+43 °C			-20 °C	+57 °C	-20 °C	-20 °C	+60 °C	-20 °C			
T5 T1	+60 °C	+60 °C			-20 °C	+60 °C	-20 °C	-20 °C	+60 °C	-20 °C			



	Stainless steel housing (electropolished) - Antenna in Zone 0 and housing in Zone 0											
121	Tp - P1 - Ta		Tp - P2 - Ta		Tp - P3 - Ta		Tp - P4 - Ta		Тр - Р5 - Та			
T1	+60 °C	+43 °C			-20 °C	+60 °C	-20 °C	-20 °C	+60 °C	-20 °C		
ਿੱਤੇ T1	+60 °C	+60 °C			-20 °C	+60 °C	-20 °C	-20 °C	+60 °C	-20 °C		

ted	Plastic h	Plastic housing - Antenna in Zone 0 and housing in Zone 0											
prir	<i>Tp</i> - P1 ·	Гр - Р1 - Та Тр - Р2 - Та Тр - Р3 - Та Тр - Р4 - Та Тр - Р5 - Та											
T <u>ê</u>	+60 °C	+44 °C			-20 °C	+54 °C	-20 °C	-20 °C	+60 °C	-20 °C			
T <u>6</u> + T <u>1</u> - T <u>1</u>	+60 °C	60 °C +60 °C20 °C +60 °C -20 °C +60 °C -20 °C											

EPL Ga/Gb instrument

For applications requiring instruments of EPL Ga/Gb the process pressure of the media must be between 0.8 ... 1.1 bar. If the LEVEL TRANSMITTER LT8139 are operated at temperatures higher than those specified in the below 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 below table. It must be taken in mind that the sensor shows no own heating in case of failure and that the safe operation of the plant in regards to pressures/temperatures of the used substances falls to the operator.

sior	Alumini	Aluminium housing - Antenna in Zone 0 and housing in Zone 1												
\ \	Tp - P1	Тр - Р1 - Та Тр - Р2 - Та Тр - Р3 - Та Тр - Р4 - Та Тр - Р5 - Та												
1 3	+60 °C	+40 °C			-20 °C	+56 °C	-20 °C	-40 °C	+60 °C	-40 °C				
15 68 T1	+60 °C	+58 °C			-20 °C	+73 °C	-20 °C	-40 °C	+60 °C	-40 °C				
15 ⊤1	+60 °C	+60 °C												

000	Stainles	s steel ho	using (p	recision o	asting) -	Antenna	in Zone 0	and hou	sing in Zo	one 1
z	Tp - P1	Тр - Р1 - Та Тр - Р2 - Та Тр - Р3 - Та Тр - Р4 - Та Тр - Р5 -								- Ta
₹	+60 °C	+39 °C			-20 °C	+57 °C	-20 °C	-40 °C	+60 °C	-40 °C
T5	+60 °C	+57 °C			-20 °C	+75 °C	-20 °C	-40 °C	+60 °C	-40 °C
T4 T1	+60 °C	+80 °C			-20 °C	+80 °C	-20 °C	-40 °C	+60 °C	-40 °C

	Stainles	s steel ho	using (el	ectropoli	shed) - A	ntenna in	Zone 0 a	nd housi	ng in Zon	e 1
	<i>Tp</i> - P1 ·	- Ta	Tp - P2	- Ta	Tp - P3	- Ta	Tp - P4	- Ta	Tp - P5 - Ta	
T6	+60 °C	+38 °C			-20 °C	+60 °C	-20 °C	-40 °C	+60 °C	-40 °C
T5	+60 °C	+56 °C			-20 °C	+78 °C	-20 °C	-40 °C	+60 °C	-40 °C
T4 T1	+60 °C	+80 °C			-20 °C	+80 °C	-20 °C	-40 °C	+60 °C	-40 °C

	Plastic h	ousing -	Antenna	in Zone 0	and hous	sing in Zo	ne 1			
	<i>Tp</i> - P1 ·	- Ta	Tp - P2	- Ta	<i>Tp</i> - P3 -	- Ta	Tp - P4	- Ta	<i>Tp</i> - P5 ·	- Ta
T6	+60 °C	+41 °C			-20 °C	+54 °C	-20 °C	-40 °C	+60 °C	-40 °C
T5	+60 °C	+58 °C			-20 °C	+71 °C	-20 °C	-40 °C	+60 °C	-40 °C
T4 T1	+60 °C	+80 °C			-20 °C	+80 °C	-20 °C	-40 °C	+60 °C	-40 °C



EPL Gb instrument

The max. permissible temperature on the electronics/housing and the sensors must not exceed the values according to the below tables.

Phase make sure that the sensor also in case of failure does not generate heat itself. Responsibility for safe operation of the equipment, with respect to pressures/temperatures of the materials used, rests with the operator.

The prerequisites for operation in the absence of explosive mixtures can be found in the manufacturer specifications.

tu r er specific	ations.									
(ug	Alumini	ım housi	ng - Ante	nna in Zo	ne 1 and	housing i	n Zone 1			
deb	Tp - P1	- Ta	Tp - P2	- Ta	Tp - P3	- Ta	Tp - P4	- Ta	Tp - P5 -	- Ta
T&	+80 °C	+40 °C			-40 °C	+59 °C	-40 °C	-40 °C	+80 °C	-40 °C
बांबांख्यें बिक्	+80 °C	+58 °C			-40 °C	+76 °C	-40 °C	-40 °C	+80 °C	-40 °C
T∰ T1	+80 °C	+80 °C			-40 °C	+80 °C	-40 °C	-40 °C	+80 °C	-40 °C
- 8										
ле Т1	Stainles	s steel ho	using (p	recision o	asting) -	Antenna	in Zone 1	and hou	sing in Zo	one 1
R (<i>Tp</i> - P1 ·	- Ta	Tp - P2	- Ta	<i>Tp</i> - P3 ·	- Ta	<i>Tp</i> - P4 ·	- Ta	Tp - P5 ·	- Ta
	+80 °C	+39 °C			-40 °C	+61 °C	-40 °C	-40 °C	+80 °C	-40 °C
Stattus	+80 °C	+57 °C			-40 °C	+79 °C	-40 °C	-40 °C	+80 °C	-40 °C
T4 T1	+80 °C	+80 °C			-40 °C	+80 °C	-40 °C	-40 °C	+80 °C	-40 °C
_6										
Version:	Stainles	s steel ho	ousing (el	ectropoli	shed) - A	ntenna in	Zone 1 a	nd housi	ng in Zon	ie 1
	<i>Tp</i> - P1	- Ta	Tp - P2	- Ta	Tp - P3	- Ta	Tp - P4	- Ta	Tp - P5	- Ta
Z †#	+80 °C	+38 °C			-40 °C	+64 °C	-40 °C	-40 °C	+80 °C	-40 °C
6 8	+80 °C	+56 °C	-30 °C	+80 °C	-40 °C	+80 °C	-40 °C	-40 °C	+80 °C	-40 °C
10005d983d0	+80 °C	+80 °C			-40 °C	+80 °C	-40 °C	-40 °C	+80 °C	-40 °C
00						•				
9	Plastic h	ousing -	Antenna	in Zone 1	and hous	sing in Zo	ne 1			
MAN	Tp - P1	- Ta	Tp - P2	- Ta	Tp - P3	- Та	Tp - P4	- Ta	Tp - P5	- Ta
16	+80 °C	+41 °C			-40 °C	+56 °C	-40 °C	-40 °C	+80 °C	-40 °C
T5	+80 °C	+58 °C			-40 °C	+73 °C	-40 °C	-40 °C	+80 °C	-40 °C

T-class - LEVEL TRANSMITTER LT8139 for process temperatures up to +130 °C

The following temperature tables are valid for:

+80 °C

LEVEL TRANSMITTER LT8139(*).**T/U**A/G/F/RH******

LEVEL TRANSMITTER LT8139(*).**F/G**I/K/PH******

LEVEL TRANSMITTER LT8139(*).**H/I**T/U/VH******

LEVEL TRANSMITTER LT8139(*).**H/I**IH******

+80 °C

If then the LEVEL TRANSMITTER LT8139 is mentioned, it is valid for the above listed versions of LEVEL TRANSMITTER LT8139.

-40 °C

-40 °C

-40 °C

+80 °C

EPL Ga instrument

T4 ... T1

For applications requiring EPL Ga instruments, the process pressure of the media must be between 0.8 ... 1.1 bar.

-40 °C

+80 °C



The prerequisites for operation in the absence of explosive mixtures can be found in the manufacturer specifications.

•	Aluminiu	Aluminium housing - Antenna in Zone 0 and housing in Zone 0											
9	Tp - P1 -	Tp - P1 - Ta											
	+60 °C	+40 °C			-20 °C	+58 °C	-20 °C	-20 °C	+60 °C	-20 °C			
T1	+60 °C	+60 °C			-20 °C	+60 °C	-20 °C	-20 °C	+60 °C	-20 °C			

<u>e</u>	Stainles	s steel ho	using (p	recision o	asting) -	Antenna	in Zone 0	and hou	sing in Zo	one 0
ле де	<i>Tp</i> - P1	- Ta	Tp - P2	- Ta	<i>Tp</i> - P3	- Ta	Tp - P4	- Ta	Tp - P5 - Ta	
T8	+60 °C	+39 °C			-20 °C	+60 °C	-20 °C	-20 °C	+60 °C	-20 °C
Ţ <u>≅</u> T1	+60 °C	+60 °C			-20 °C	+60 °C	-20 °C	-20 °C	+60 °C	-20 °C

pesi	Stainles	Stainless steel housing (electropolished) - Antenna in Zone 0 and housing in Zone 0												
elea	<i>Tp</i> - P1	Тр - Р1 - Та												
15	+60 °C	+39 °C			-20 °C	+60 °C	-20 °C	-20 °C	+60 °C	-20 °C				
f.5 T1	+60 °C	+60 °C			-20 °C	+60 °C	-20 °C	-20 °C	+60 °C	-20 °C				

Staf	Plastic housing - Antenna in Zone 0 and housing in Zone 0												
- :C	Tp - P1	Тр - Р1 - Та Тр - Р2 - Та Тр - Р3 - Та Тр - Р4 - Та Тр - Р5 - Та								· Ta			
<u>₽</u>	+60 °C	+43 °C			-20 °C	+55 °C	-20 °C	-20 °C	+60 °C	-20 °C			
™ T1	+60 °C	+60 °C			-20 °C	+60 °C	-20 °C	-20 °C	+60 °C	-20 °C			

EPL Ga/Gb instrument

Pay applications requiring instruments of EPL Ga/Gb the process pressure of the media must be between 0.8 ... 1.1 bar. If the LEVEL TRANSMITTER LT8139 are operated at temperatures higher that those specified in the below table, please make sure through appropriate measures that there is a danger of ignition from the hot surfaces. The max. permissible temperature on the electronics/housing should not exceed the values specified in the below table. It must be taken in mind that the sansor shows no own heating in case of failure and that the safe operation of the plant in regards to pressures/temperatures of the used substances falls to the operator.

	Aluminiu	ım housiı	ng - Antei	nna in Zo	ne 0 and	housing i	n Zone 1			
	<i>Tp</i> - P1 -	- Ta	Tp - P2	- Ta	<i>Tp</i> - P3	- Ta	Tp - P4	- Ta	<i>Tp</i> - P5 ·	- Ta
T6	+60 °C	+32 °C			-20 °C	+58 °C	-20 °C	-40 °C	+60 °C	-40 °C
T5	+60 °C	+47 °C			-20 °C	+72 °C	-20 °C	-40 °C	+60 °C	-40 °C
T4 T1	+60 °C	+57 °C			-20 °C	+80 °C	-20 °C	-40 °C	+60 °C	-40 °C

	Stainles	s steel ho	ousing (p	recision o	casting) -	Antenna	in Zone 0	and hou	sing in Zo	ne 1
	Tp - P1	- Ta	Tp - P2	- Ta	Tp - P3	- Ta	Tp - P4	- Та	Tp - P5	- Ta
T6	+60 °C	+30 °C			-20 °C	+60 °C	-20 °C	-20 °C	+60 °C	-20 °C
T5	+60 °C	+45 °C			-20 °C	+78 °C	-20 °C	-20 °C	+60 °C	-20 °C
T4 T1	+60 °C	+47 °C			-20 °C	+80 °C	-20 °C	-40 °C	+60 °C	-40 °C



	1									
	Stainles	s steel h	ousing (e	lectropoli	ished) - A	ntenna ir	Zone 0 a	ınd housi	ng in Zon	e 1
21	Tp - P1	- Ta	<i>Tp</i> - P2	- Ta	<i>Tp</i> - P3	- Ta	Tp - P4	- Ta	Tp - P5 - Ta	
5 7 0920	+60 °C	+29 °C			-20 °C	+60 °C	-20 °C	-40 °C	+60 °C	-40 °C
S	+60 °C	+44 °C	-5 °C	+80 °C	-20 °C	+80 °C	-20 °C	-40 °C	+60 °C	-40 °C
[4 T1	+60 °C	+36 °C			-20 °C	+80 °C	-20 °C	-40 °C	+60 °C	-40 °C
te	*		*	•	•	•			•	•
printe T A T1	Plastic I	ousing -	Antenna	in Zone 0	and hou	sing in Zo	ne 1			
	Tp - P1	- Ta	Tp - P2	- Ta	<i>Tp</i> - P3	- Ta	Tp - P4	- Ta	Tp - P5	- Та
P	+60 °C	+39 °C			-20 °C	+55 °C	-20 °C	-40 °C	+60 °C	-40 °C
#eigegeben)	+60 °C	+54 °C			-20 °C	+72 °C	-20 °C	-40 °C	+60 °C	-40 °C
™ T1	+60 °C	+46 °C			-20 °C	+80 °C	-20 °C	-40 °C	+60 °C	-40 °C

EEL Gb

The max. permissible temperature on the electronics/housing and the sensors must hence not exceed the values according to the below tables.

Frease make sure that the sensor also in case of failure does not generate heat itself. Responsibility fogsafe operation of the equipment, with respect to pressures/temperatures of the materials used, rests with the operator.

Versi	Aluminiu	ım housiı	ng - Anter	nna in Zo	ne 1 and	housing i	n Zone 1			
Z	Tp - P1 -	· Ta	Tp - P2 -	· Ta	Tp - P3	- Ta	Tp - P4	- Ta	Tp - P5 -	- Ta
95E	+80 °C	+32 °C			-40 °C	+61 °C	-40 °C	-40 °C	+80 °C	-40 °C
ത	+95 °C	+47 °C			-40 °C	+79 °C	-40 °C	-40 °C	+95 °C	-40 °C
0	+130 °C	+57 °C	+80 °C	+80 °C	-40 °C	+80 °C	-40 °C	-40 °C	+130 °C	-40 °C

7	Stainles	stainless steel housing (precision casting) - Antenna in Zone 1 and housing in Zone 1										
MAN	Tp - P1	- Ta	Tp - P2 -	- Ta	Tp - P3	- Ta	Tp - P4	- Ta	Tp - P5 - Ta			
T6	+80 °C	+30 °C			-40 °C	+64 °C	-40 °C	-40 °C	+80 °C	-40 °C		
T5	+95 °C	+45 °C	-30 °C	+80 °C	-40 °C	+80 °C	-40 °C	-40 °C	+95 °C	-40 °C		
T4 T1	+130 °C	+47 °C	+80 °C	+80 °C	-40 °C	+80 °C	-40 °C	-40 °C	+130 °C	-40 °C		

	Stainles	s steel ho	using (el	ectropoli	shed) - A	ntenna in	Zone 1 a	nd housi	ng in Zon	e 1
	Tp - P1	- Ta	Tp - P2 -	- Ta	Tp - P3	- Ta	Tp - P4	- Ta	Tp - P5 ·	- Ta
T6	+80 °C	+29 °C			-40 °C	+71 °C	-40 °C	-40 °C	+80 °C	-40 °C
T5	+95 °C	+44 °C	-5 °C	+80 °C	-40 °C	+80 °C	-40 °C	-40 °C	+95 °C	-40 °C
T4 T1	+130 °C	+36 °C	+80 °C	+80 °C	-40 °C	+80 °C	-40 °C	-40 °C	+130 °C	-40 °C

	Plastic h	ousing -	Antenna	in Zone 1	and hou	sing in Zo	ne 1			
	Тр - P1 - Та Тр - P2 - Та				Tp - P3	- Ta	<i>Tp</i> - P4 ·	- Ta	Тр - Р5 - Та	
T6	+80 °C	+39 °C			-40 °C	+58 °C	-40 °C	-40 °C	+80 °C	-40 °C
T5	+95 °C	+54 °C			-40 °C	+75 °C	-40 °C	-40 °C	+95 °C	-40 °C



	Plastic h	lastic housing - Antenna in Zone 1 and housing in Zone 1											
21	Tp - P1 -	Та	Tp - P2 -	Та	<i>Tp</i> - P3 -	- Ta	Tp - P4 -	- Та	Tp - P5 -	- Та			
124 T1	+130 °C	+46 °C	+80 °C	+80 °C	-40 °C	+80 °C	-40 °C	-40 °C	+130 °C	-40 °C			

Ticlass - LEVEL TRANSMITTER LT8139 for process temperatures up to +195 °C

Tige following temperature tables are valid for:

LEVEL TRANSMITTER LT8139(*).**T/U**B/H/SH*****

LEVEL TRANSMITTER LT8139(*).**F/G**J/W/L/Y/QH******

LEVEL TRANSMITTER LT8139(*).**H/I**JH*****

If he need the LEVEL TRANSMITTER LT8139 is mentioned, it is valid for the above listed versions of LEVEL TRANSMITTER LT8139.

EPL Ga instrument

 F_{θ}^{ϕ} applications requiring EPL Ga instruments, the process pressure of the media must be between $0.8 \pm ... + 1.1$ bar.

The prerequisites for operation in the absence of explosive mixtures can be found in the manufacturer specifications.

Status:	Aluminiu	Aluminium housing - Antenna in Zone 0 and housing in Zone 0													
- St	<i>Tp</i> - P1 -	- Ta	Tp - P2 -	- Та	<i>Tp</i> - P3 -	- Ta	<i>Tp</i> - P4 ·	- Ta	Tp - P5 - Ta						
T <u>6</u>	+60 °C	+44 °C			-20 °C	+51 °C	-20 °C	-20 °C	+60 °C	-20 °C					
T∰ T1	+60 °C	+60 °C			-20 °C	+60 °C	-20 °C	-20 °C	+60 °C	-20 °C					

Z	Stainles	Stainless steel housing (precision casting) - Antenna in Zone 0 and housing in Zone 0													
—	Tp - P1 -	Тр - Р1 - Та Тр - Р2 - Та Тр - Р3 - Та Тр - Р4 - Та Тр -								- Ta					
06 86 95 11	+60 °C	+44 °C			-20 °C	+53 °C	-20 °C	-20 °C	+60 °C	-20 °C					
1 8 ⊤1	+60 °C	+60 °C		-	-20 °C	+60 °C	-20 °C	-20 °C	+60 °C	-20 °C					

7	Stainles	s steel ho	ousing (el	ectropoli	shed) - A	ntenna in	Zone 0 a	nd housi	ng in Zon	e 0
MA	Tp - P1	- Ta	Tp - P2 - Ta			Tp - P3 - Ta		- Ta	Tp - P5 - Ta	
Т6	+60 °C	+43 °C			-20 °C	+55 °C	-20 °C	-20 °C	+60 °C	-20 °C
T5 T1	+60 °C	+60 °C			-20 °C	+60 °C	-20 °C	-20 °C	+60 °C	-20 °C

	Plastic h	ousing -	Antenna	in Zone 0	and hou	sing in Zo	ne 0			
	Tp - P1	- Ta	Tp - P2	- Ta	Tp - P3	- Ta	Tp - P4	- Ta	Tp - P5 - Ta	
T6	+60 °C	+45 °C			-20 °C	+50 °C	-20 °C	-20 °C	+60 °C	-20 °C
T5 T1	+60 °C	+60 °C			-20 °C	+60 °C	-20 °C	-20 °C	+60 °C	-20 °C

EPL Ga/Gb instrument

For applications requiring instruments of EPL Ga/Gb the process pressure of the media must be between 0.8 ... 1.1 bar. If the LEVEL TRANSMITTER LT8139 are operated at temperatures higher than those specified in the below 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 below table. It must be taken in mind that the sensor shows no own heating in case of failure and that the safe operation of the plant in regards to pressures/temperatures of the used substances falls to the operator.



The prerequisites for operation in the absence of explosive mixtures can be found in the manufacturer specifications.

Σ. '										
2021	Alumini	um housi	ng - Ante	nna in Zo	ne 0 and	housing	in Zone 1			
Parinted: 315.09.	Tp - P1	- Ta	<i>Tp</i> - P2	- Ta	<i>Tp</i> - P3	- Ta	Tp - P4	- Ta	Tp - P5	- Ta
<u>16</u>	+60 °C	+42 °C			-20 °C	+51 °C	-20 °C	-40 °C	+60 °C	-40 °C
<u> </u>	+60 °C	+57 °C			-20 °C	+68 °C	-20 °C	-40 °C	+60 °C	-40 °C
igr Tgr	+60 °C	+73 °C			-20 °C	+80 °C	-20 °C	-40 °C	+60 °C	-40 °C
頂 T1	+60 °C	+65 °C			-20 °C	+80 °C	-20 °C	-40 °C	+60 °C	-40 °C
ep										
geg	Stainles	s steel h	ousing (p	recision (casting) -	Antenna	in Zone 0	and hou	sing in Z	one 1
frei	Tp - P1	- Ta	<i>Tp</i> - P2	- Ta	<i>Tp</i> - P3	- Ta	Tp - P4	- Ta	Tp - P5	- Ta
T-6	+60 °C	+41 °C			-20 °C	+53 °C	-20 °C	-20 °C	+60 °C	-20 °C
(ræleæseæ) freigegebæd)	+60 °C	+56 °C			-20 °C	+70 °C	-20 °C	-20 °C	+60 °C	-20 °C
18	+60 °C	+70 °C			-20 °C	+80 °C	-20 °C	-40 °C	+60 °C	-40 °C
듐 T1	+60 °C	+57 °C			-20 °C	+80 °C	-20 °C	-40 °C	+60 °C	-40 °C
.č.										
Status:	Stainles	s steel h	ousing (e	lectropol	ished) - A	ntenna ir	Zone 0 a	nd hous	ing in Zon	ie 1
	<i>Tp</i> - P1	- Ta	<i>Tp</i> - P2	- Ta	<i>Tp</i> - P3	- Ta	Tp - P4	- Ta	Tp - P5	- Ta
 T§	+60 °C	+40 °C			-20 °C	+55 °C	-20 °C	-40 °C	+60 °C	-40 °C
Tag Tag	+60 °C	+55 °C			-20 °C	+72 °C	-20 °C	-40 °C	+60 °C	-40 °C
-: [6] [6] [7] [7]	+60 °C	+66 °C			-20 °C	+80 °C	-20 °C	-40 °C	+60 °C	-40 °C
∰ T1	+60 °C	+49 °C			-20 °C	+80 °C	-20 °C	-40 °C	+60 °C	-40 °C
96										
60	Plastic I	nousing -	Antenna	in Zone 0	and hou	sing in Zo	one 1			
A000509890	Tp - P1	- Ta	Tp - P2	- Ta	<i>Tp</i> - P3	- Ta	Tp - P4	- Ta	Tp - P5	- Ta
	+60 °C	+43 °C			-20 °C	+50 °C	-20 °C	-40 °C	+60 °C	-40 °C
TE N	+60 °C	+58 °C			-20 °C	+66 °C	-20 °C	-40 °C	+60 °C	-40 °C
2 T4	+60 °C	+68 °C			-20 °C	+80 °C	-20 °C	-40 °C	+60 °C	-40 °C
T3 T1	+60 °C	+54 °C			-20 °C	+80 °C	-20 °C	-40 °C	+60 °C	-40 °C

EPL Gb instrument

The max. permissible temperature on the electronics/housing and the sensors must hence not exceed the values according to the below tables.

Please make sure that the sensor also in case of failure does not generate heat itself. Responsibility for safe operation of the equipment, with respect to pressures/temperatures of the materials used, rests with the operator.

	Alumini	ım housiı	luminium housing - Antenna in Zone 1 and housing in Zone 1											
	Tp - P1	r r			Tp - P3	- Ta	Tp - P4	· Ta	Tp - P5 - Ta					
T6	+80 °C	+42 °C			-40 °C	+53 °C	-40 °C	-40 °C	+80 °C	-40 °C				
T5	+95 °C	+57 °C			-40 °C	+69 °C	-40 °C	-40 °C	+95 °C	-40 °C				



	Aluminiu	ım housi	ng - Ante	nna in Zo	ne 1 and	housing i	in Zone 1								
21	<i>Tp</i> - P1 ·	- Та	<i>Tp</i> - P2	- Ta	Tp - P3	- Ta	Tp - P4	- Ta	Tp - P5	- Та					
1520922021 1	+130 °C	+73 °C	+80 °C	+80 °C	-40 °C	+80 °C	-40 °C	-40 °C	+135 °C	-40 °C					
ਿੱਡੇ T1	+195 °C	+65 °C	+80 °C	+80 °C	-40 °C	+80 °C	-40 °C	-40 °C	+195 °C	-40 °C					
printed	Stainles	s steel ho	ousing (p	recision o	easting) -	Antenna	in Zone 1	and hou	sing in Zo	one 1					
prin	Tp - P1 -	- Та	<i>Tp</i> - P2	- Ta	Tp - P3	- Ta	Tp - P4	- Ta	Tp - P5 - Ta						
Tê	+80 °C	+41 °C			-40 °C	+55 °C	-40 °C	-40 °C	+80 °C	-40 °C					
18	+95 °C	+56 °C			-40 °C	+71 °C	-40 °C	-40 °C	+95 °C	-40 °C					
1 6	+130 °C	+70 °C	+80 °C	+80 °C	-40 °C	+80 °C	-40 °C	-40 °C	+130 °C	-40 °C					
(如)	+195 °C	+57 °C	+80 °C	+80 °C	-40 °C	+80 °C	-40 °C	-40 °C	+195 °C	-40 °C					
(released	Stainless steel housing (electropolished) - Antenna in Zone 1 and housing in Zone 1														
rele	<i>Tp</i> - P1 ·	- Ta	<i>Tp</i> - P2	- Ta	Tp - P3	- Ta	Tp - P4	- Ta	Tp - P5 - Ta						
H H	+80 °C	+40 °C			-40 °C	+58 °C	-40 °C	-40 °C	+80 °C	-40 °C					
	+95 °C	+55 °C			-40 °C	+75 °C	-40 °C	-40 °C	+95 °C	-40 °C					
Status:	+130 °C	+66 °C	+80 °C	+80 °C	-40 °C	+80 °C	-40 °C	-40 °C	+130 °C	-40 °C					
T <u>3</u> T1	+195 °C	+49 °C	+80 °C	+80 °C	-40 °C	+80 °C	-40 °C	-40 °C	+195 °C	-40 °C					
no									•	•					
7.8 T1	Plastic h	ousing -	Antenna	in Zone 1	and hou	sing in Zo	one 1								
	Tp - P1 -	- Ta	Tp - P2	- Ta	Tp - P3	- Ta	Tp - P4	- Ta	Tp - P5	- Ta					
Z #8	+80 °C	+43 °C			-40 °C	-40 °C +51 °C		-40 °C	+80 °C	-40 °C					
0520983B10	+95 °C	+58 °C				-40 °C +67 °C		-40 °C	+95 °C	-40 °C					
2	+130 °C	.60.00	.00.00	00.00	40.00		10.00	1000		40.00					
1 18	+130 0	+68 °C	+80 °C	+80 °C	-40 °C	+80 °C	-40 °C	-40 °C	+130 °C	-40 °C					

T桑lass - LEVEL TRANSMITTER LT8139 for low process temperatures up to -196 °C The following temperature tables are valid for:

+80 °C

LEVEL TRANSMITTER LT8139(*).**F/G**W/YH*****

+54 °C

+80 °C

+195 °C

If then the LEVEL TRANSMITTER LT8139 is mentioned, it is valid for the above listed versions of LEVEL TRANSMITTER LT8139.

-40 °C

+80 °C

-40 °C

-40 °C

+195 °C

-40 °C

Only the antenna/the process fitting of LEVEL TRANSMITTER LT8139 is exposed to process temperatures Tp of up to -196 °C. The housing is exposed to the max. ambient temperature Ta.

EPL Gb instrument

ලි ... T1

The max. permissible temperature on the electronics/housing and the sensors must hence not exceed the values according to the below tables.

Please make sure that the sensor also in case of failure does not generate heat itself. Responsibility for safe operation of the equipment, with respect to pressures/temperatures of the materials used, rests with the operator.



	Alumin	ium hou	sing - A	ntenna i	n Zone 1	Aluminium housing - Antenna in Zone 1 and housing in Zone 1														
121	<i>Tp</i> - P1	- Ta	Tp - P2	? - Ta	<i>Tp</i> - P 3	s' - Ta	Tp - P4	l' - Ta	Tp - P 4	- Ta	<i>Tp</i> - P 5	- Ta								
जाड.09:व्ये 0 21	+80 °C	+42 °C	-40 °C	+53 °C	-196 °C	+53 °C	-196 °C	-10 °C	-40 °C	-40 °C	+80 °C	-40 °C								
ed: 345	+95 °C	+57 °C	-40 °C	+69 °C	-196 °C	+69 °C	-196 °C	-10 °C	-40 °C	-40 °C	+95 °C	-40 °C								
printed:	+130 °C	+74 °C	+80 °C	+80 °C	-196 °C	+80 °C	-196 °C	-10 °C	-40 °C	-40 °C	+130 °C	-40 °C								
18, T2,	+195 °C	+67 °C	+80 °C	+80 °C	-196 °C	+80 °C	-196 °C	-10 °C	-40 °C	-40 °C	+195 °C	-40 °C								

reig	Stainless steel housing (precision casting) - Antenna in Zone 1 and housing in Zone 1														
<u>P</u>	Tp - P1 - Ta		Tp - P2 - Ta		<i>Tp</i> - P3	' - Ta	<i>Tp</i> - P 4	' - Ta	Tp - P4	- Та	<i>Tp</i> - P 5	- Ta			
RLतृreleased freig	+80 °C	+42 °C	-40 °C	+55 °C	-196 °C	+55 °C	-196 °C	-10 °C	-40 °C	-40 °C	+80 °C	-40 °C			
	+95 °C	+57 °C	-40 °C	+71 °C	-196 °C	+71 °C	-196 °C	-10 °C	-40 °C	-40 °C	+95 °C	-40 °C			
Status:	+130 °C	+71 °C	+80 °C	+80 °C	-196 °C	+80 °C	-196 °C	-10 °C	-40 °C	-40 °C	+130 °C	-40 °C			
T3, T2,	+195 °C	+60 °C	+80 °C	+80 °C	-196 °C	+80 °C	-196 °C	-10 °C	-40 °C	-40 °C	+195 °C	-40 °C			

Ve	Stainless steel housing (electropolished) - Antenna in Zone 1 and housing in Zone 1														
Z H	Tp - P1 - Ta		Тр - Р2 - Та		<i>Tp</i> - P3	' - Ta	<i>Tp</i> - P 4	' - Ta	<i>Tp</i> - P4	- Ta	<i>Tp</i> - P 5	- Ta			
123, T2,	+80 °C	+41 °C	-40 °C	+58 °C	-196 °C	+58 °C	-196 °C	-10 °C	-40 °C	-40 °C	+80 °C	-40 °C			
2000 ട	+95 °C	+56 °C	-40 °C	+75 °C	-196 °C	+75 °C	-196 °C	-10 °C	-40 °C	-40 °C	+95 °C	-40 °C			
T4 NA	+130 °C	+68 °C	+80 °C	+80 °C	-196 °C	+80 °C	-196 °C	-10 °C	-40 °C	-40 °C	+130 °C	-40 °C			
T3, T2, T1	+195 °C	+53 °C	+80 °C	+80 °C	-196 °C	+80 °C	-196 °C	-10 °C	-40 °C	-40 °C	+195 °C	-40 °C			

	Plastic	housing	- Anten	na in Zo	ne 1 and	l housin	g in Zon	e 1					
	Tp - P1 - Ta		Tp - P2 - Ta		<i>Tp</i> - P3	s' - Ta	<i>Tp</i> - P4	' - Ta	Tp - P4	- Та	Тр - Р5 - Та		
T6	+80 °C	+43 °C	-40 °C	+51 °C	-196 °C	+51 °C	-196 °C	-10 °C	-40 °C	-40 °C	+80 °C	-40 °C	
T5	+95 °C	+58 °C	-40 °C	+67 °C	-196 °C	+67 °C	-196 °C	-10 °C	-40 °C	-40 °C	+95 °C	-40 °C	
T4	+130 °C	+70 °C	+80 °C	+80 °C	-196 °C	+80 °C	-196 °C	-10 °C	-40 °C	-40 °C	+130 °C	-40 °C	
T3, T2, T1	+195 °C	+58 °C	+80 °C	+80 °C	-196 °C	+80 °C	-196 °C	-10 °C	-40 °C	-40 °C	+195 °C	-40 °C	

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