



**File**  
**LR3081**

**CERTIFICATE OF COMPLIANCE**  
**(ISO TYPE 3 CERTIFICATION SYSTEM)**

Issued to	i.safe MOBILE GmbH	
Address	i_Park Tauberfranken 10 97922 Lauda-Koenigshofen Germany	
Project Number	LR3081-5	
Product	REALWEAR NAVIGATOR Z1, Intrinsically Safe	
Model Number	See Annex A	
Electrical Ratings	Battery operated. Replaceable and rechargeable Lithium-ion battery model B21S Vnom=3.7V (Voc=4.2V) 2.56 Ah/ 9.472Wh.	
Markings	Intrinsically Safe Class I, Division 1, Groups ABCD, T4 Class II, Division 1, Groups EFG, T200 °C Class III -20°C ≤ Tamb ≤ 55°C IP64	
Applicable Standards	CSA C22.2 No. 61010-1-12-3rd CSA C22.2 No. 60079-0:15 CSA C22.2 No. 60079-11:14	UL 61010-1, Edition 3 UL 60079-0 7th ed. UL 60079-11 6th ed.
Factory/Manufacturing Location	i_Park Tauberfranken 10 97922 Lauda-Koenigshofen, Germany	
Conditions of Certification	See Annex A	

**Statement of Compliance:** The product(s)/equipment identified in this Certificate and described in the Certification Report covered under the above referenced project number have been investigated and found to be in compliance with the relevant requirements of the above referenced standard(s). As such, they are eligible to bear the QPS Certification Mark shown below, in accordance with the provisions of QPS's Service Agreement.

**IMPORTANT NOTE: In order to maintain the integrity of the QPS Mark(s), certification will be revoked if:**

- (1) Compliance to the above-mentioned Standard(s), or those identified in future QPS Standard Update Notice – SUN (QSD 55) is not maintained, or,
- (2) If the product/equipment is modified after certification is granted without prior written consent by QPS



Issued By: Rob Kohuch, Senior Engineer - Hazardous Locations [Ex Products]

Signature: *Rob Kohuch*

Date: March 27, 2024



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**Annex A:**

**Model Number:**

T21S

- Variant 1: visual camera module
- Variant 2: integrated visual with thermal camera module

**Conditions of Certification:**

- The battery may only be charged and replaced outside of the hazardous area only.
- The device must be protected from impacts.
- The device must be protected against excessive exposure to UV light.
- The device must be protected from high electrostatic discharge.
- The covers of all interfaces must be closed.
- The device is intended to be worn during use in the hazardous area.
- The audio jack does not need to be covered and shall be used with the Ear bud hearing protection headphones model H1100G, and H1101G and other accessories, which comply with the following intrinsic safety entity parameters:

Connection values for the audio jack AJ:

Output voltage:	Uo or Voc	= 4.2 V
Output current:	Io or Isc	= 274 mA (linear characteristic)
Output power (thermal):	Po or Pout	= 288 mW
Effective internal capacitance:	Ci	= 0 µF
Effective internal inductance:	Li	= 0 µH
Internal resistance:	Ri	= 15.323 Ω

