

AUDIO TRAIN INTERCOM UNIT (TIU)

ON-BOARD PASSENGER INFORMATION SYSTEM



FEATURES

- VoIP and UIC568 operation
- Push buttons & led outputs
- Convenient handset with display, keypad and push button

HOW STAFF CAN COMMUNICATE CONVENIENTLY

The Train Intercom Unit (TIU) allows bi-directional communication between staff and the train driver. Voice communication takes place regardless whether VoIP or analog UIC568 voice is necessary. If VoIP is not working TUI can fallback to UIC568 based analogue voice calls to assure proper communication.



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TECHNICAL DATA

Network	
Operating Voltage	Nominal Voltages: EN50155 :2017 - 110V; Other voltages available in option
Insulation and voltage withstand	Compliant to EN50155:2017: Voltage withstand 1000VAC or 1500VDC; Insulation: >20MΩ at 500VDC
Reverse polarity protection	Yes
Voltage interruptions Class	EN50155:2017 – Class S2
Supply changeover class	EN50155:2017 – Class C1
Inrush current	Limited to 5x the nominal current
Interfaces	
User Interfaces	Handset with one push-to-talk button, LCD display and keypad (2508-244-008-51 PEIKER ACUSTIC)
Status Indicator	Power; Ethernet; Status
Power In	3-pin male Phoenix Combicon
ID Input	1 x
Digital In	1 x PA pushbutton input 1 x IC Pushbutton input 1 x RADIO Pushbutton input 1 x Spare Pushbutton input (24V current limited for pushbuttons)
Digital Out	2 x Dry contact for speaker mute 6 x LED output
Ethernet	2 x Dry contact for speaker mute 6 x LED output
Mechanical properties	
Dimensions	Custom housing as small as possible
Environment	
Operating Temperature	Class OT4 as per EN50155 :2017, equivalent to Class TX as per 50125-1 :2014 inside a vehicle compartment: -40°C to +70°C
Storage Temperature	-40°C to +85°C.
Rapid Temperature Variation	EN50155:2017 Class H2
Ingress Protection	IP54
Shock and Vibration	Compliant to EN 61373 performance for Category 1 body mounted equipment. Class B. (complies to EN50155:2017)
Standards	
DIN EN 45545-2	Compliant (HL2)
DIN EN 50121-3-2	Compliant (2016)
DIN EN 50155	Compliant (2017)
NFPA130	Compliant

Disclaimer

Features and specifications are subject to change without notice. Properties relating to the Goods contained in this document do not constitute the product specifications but typical values for purposes of description only. February 2023