

# AUDIO COACH CONTROLLER (ACC)

## ON-BOARD PASSENGER INFORMATION SYSTEM



## FEATURES

- VoIP and UIC568 operation possible
- Fulfils all relevant rail standards
- Runs on TRDP



## INFORM YOUR PASSENGERS

The Audio Coach Controller (ACC) is the device that brings audio messages to your passengers. It enables you to provide passenger information or to entertain them by offering music, operating control center announcements or other relevant audio messages. Grade of service is high as it offers VoIP as well as UIC568 audio fallback solution. Even if parts fail the design allows limited operation. You can connect up to 4 loudspeaker networks and two passenger communication units of Luminator's PIS audio and visual system towards the ACC. The small box design allows easy integration even under limited space environment.

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### TECHNICAL DATA

|                                  |  |
|----------------------------------|--|
| <b>Audio</b>                     |  |
| Amplifier                        | 4 x 30 W continuous power on a 4Ω load   |
| <b>Electrical properties</b>     |  |
| 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  |
| <b>Interfaces</b>                |  |
| Status Indicator                 | Limited to 5x the nominal current  |
| Power In                         | 3-pin male Phoenix Combicon  |
| Ethernet                         | 1 x M12 D-coded connector (socket) for Ethernet 10/100Mbps   |
| USB                              | USB 2.0 service port   |
| Audio Output                     | 12-Pin Male Deutsch DT connector for AMP 1-4 outputs<br>1 x (optional) D-Sub connector with 9 pins male (UIC 568 analog train lines) |
| <b>Mechanical properties</b>     |  |
| Dimensions                       | W x H x D: 225 mm x 116.49 mm x 170 mm   |
| Finishing                        | Black powder coated metal case   |
| <b>Environment</b>               |  |
| 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 EN50155:2017 - EN 61373 performance for Category 1 body mounted equipment. Class B.                                     |
| <b>Standards</b>                 |  |
| 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