More than sensors + automation

JUMO hydroTRANS Series

Humidity and temperature transmitter with optional CO_2 module for railway applications

The features at a glance

- Compliance with railway standards according to DIN EN 50155
- Precise climate monitoring including CO_2 option
- Low maintenance requirements
- Easy installation via established interfaces, minimal installation requirements

Type 907043, 907044

JUMO RAIL®
EN 50155

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Brief overview

Devices of the JUMO hydroTRANS series are reliable humidity and temperature transmitters with an optional CO_2 module, which operate according to the capacitive measurement method. The device series is available with various interfaces. It is characterized by easy installation, robustness, and reliable sensor technology.

JUMO hydroTRANS for railway application according to DIN EN 50155 is available in 2 variants: as a duct or as a rod version. The various versions with IP65 protection type make the devices suitable for a wide range of application areas in climate monitoring for railway applications.

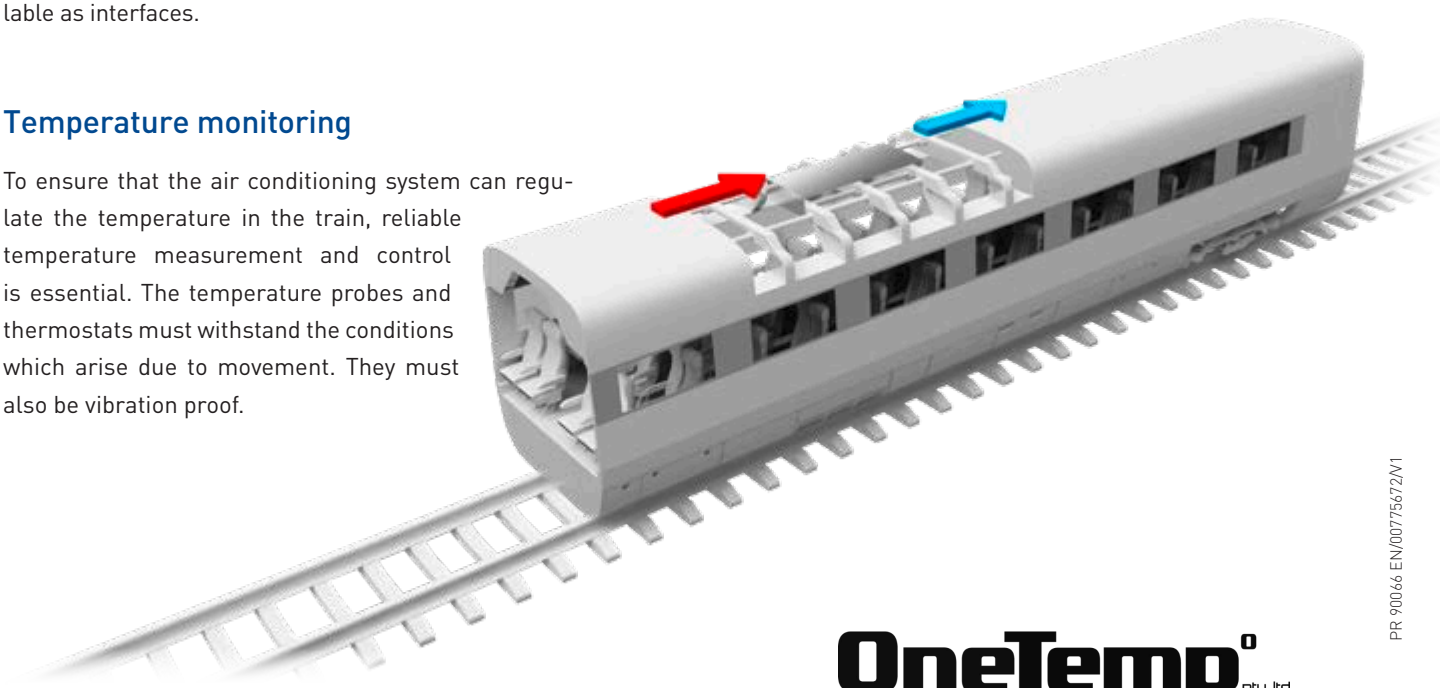
Depending on the type, the measuring range is 0 to 100 % RH and the accuracy is 2 % RH. The variants can be used in temperature ranges between -40 and +80 °C. Variants with an optional CO_2 module with a measuring range of up to 10 000 ppm are available for the precise determination of the indoor air quality. Very low response times can be achieved by placing the module in the probe head. A voltage and current output as well as Modbus are available as interfaces.

Technical data

Product name	**JUMO hydroTRANS S30 JUMO hydroTRANS S40**
Type	907043, 907044
Humidity measuring range	0 to 100 % RH
Temperature measuring range	-40 to +80 °C
CO_2 measuring range	400 to 10 000 ppm
Analog outputs	4 to 20 mA, 0 to 10 V
Digital output	Modbus RS485
Protection type	IP65
Application area	Air conditioning and ventilation monitoring

Temperature monitoring

To ensure that the air conditioning system can regulate the temperature in the train, reliable temperature measurement and control is essential. The temperature probes and thermostats must withstand the conditions which arise due to movement. They must also be vibration proof.



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