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Vaisala RWS200 Digital Road Interface DRI701

Vaisala Digital Road Interface DRI701 is an optional component of Vaisala Road Weather Station RWS200. DRI701 provides the connection for Vaisala DRS511 and FP2000 embedded road sensors, Vaisala DTS12G and DTS210 subsurface temperature sensors, and a global radiation sensor.

Each DRI701 provides an interface for two embedded road sensors and two subsurface temperature sensors. One of the subsurface temperature sensors can be replaced with a global radiation sensor.

If the application requires more sensors of either type, another DRI701 can be added to the road weather station. One station houses a maximum of two DRI701 cards. DRI701 provides power to the embedded road sensors, and converts analog and frequency signals from these sensors to a message for internal system communication.



RWS200 Digital Road Interface

Benefits of RWS200 DRI701

- Provides connection for analog road sensors
- Provides connection for analog subsurface temperature sensors
- Provides connection for an analog global radiation sensor

Technical Data

General

-40 ...+60 °C (-40 ... 140 °F) -60 ...+80 °C (-58 ... 176 °F) Operating temperature range Storage temperature range 5 ... 93 %RH non-condensing Operating humidity range **MATERIALS** Screws, washers, DIN rail locking piece Stainless steel AISI 316 Frame profile Aluminum EN AW-6060 T6 Plastic PC/ABS Side plates Size $(H \times W \times D)$ $126 \times 37 \times 127 \text{ mm} (5.0 \times 1.5 \times 5.0 \text{ in})$ Weight 0.3 kg (0.7 lb)DIN rail 35 mm (1.4 in) Mounting

Power

Powering 8 ... 32 VDC Phoenix Contact DFMC 1,5/3-ST-3,5-LR Connector TYPICAL AVERAGE POWER CONSUMPTION 0.76 W With two DRS511 sensors With two FP2000 sensors 1 W **LEDs** Status

Connectors

Service connection RS-232 Phoenix Contact DFMC 1,5/3-ST-3,5-LR Connector System connectors $2 \times \text{Ethernet } 10/100 \text{ RJ45}$ with link LEDs, IEEE 802.3

Test Method Standards

IEC 60068-2-6 Vibration Rough handling IEC 60068-2-31 IEC60068-2-27 Shock Dry heat IEC 60068-2-2 IEC 60068-2-78 Damp heat Corrosion and salt mist VDA 621-415 EMC (industrial environment) EN/IEC 61326-1 CISPR22/EN 55022/Class B Conducted emissions Radiated emissions CISPR22/EN 55022/Class B EN/UL/IEC 60950-1/-22 Electrical safety

Standard Sensor Options

Road state and temperature, embedded $2 \times DRS511$ or $2 \times FP2000$ 2 × Phoenix Contact DFMC 1,5/8-ST-3,5-LR Connectors Subsurface temperature $2 \times DTS12G$ or $2 \times DTS210$ 1 × Phoenix Contact DFMC 1,5/4-ST-3,5-LR Connector Global radiation 1 × global radiation sensor 1 1 × Phoenix Contact DFMC 1,5/4-ST-3,5-LR Connector

With one DTS12G or DTS210 sensor



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