VAISALA

Vaisala Surface Patrol Pavement Temperature Sensor with Display DSP100 Series



The Vaisala Surface Patrol
Pavement Temperature Sensor with
Display DSP100 Series is a mobile
temperature sensor used to detect
possible freezing temperatures on
the pavement. It features a noncontact infrared sensor for measuring
pavement temperature, and also
measures air temperature. The easyto-use DSP100 is valuable for large
agencies, such as Departments of
Transportation, all the way down to
smaller companies with only a few
trucks.

The DSP100 is mounted outside your vehicle and continuously monitors road surface temperatures, providing instant feedback on road

surface conditions. The DSP100 has a separate air temperature sensor and cabling so that it can be placed away from direct sunlight for accurate readings. The data retrieved from the DSP100 is accurate and realtime, making it a reliable method for collecting pavement information. The DSP100 can be calibrated in the field, ensuring you are always getting the most accurate readings. In addition, the pavement probe features a cone design to protect the sensor from spray and winter elements that can decrease the accuracy of the readings.

Benefits

- Mobile sensor provides pavement data for your entire route
- Real-time pavement and air temperature readings
- Inexpensive compared to other pavement monitoring methods

Features

- Measures both air and pavement temperatures
- Easy-to-read, dash-mounted digital display
- Patented cone design to protect sensor lens
- Separate air sensor for improved accuracy
- Quick and easy to install
- Unit can be calibrated in the field as opposed to returning it to the manufacturer
- Integrates with other vehicle equipment such as spreaders or distance measuring instruments
- Optional RS-232 output to connect to a computer or analog output for other applications

Technical data

General

at 0 °C (32 °F)

Optics Precision crystal (germanium lens)
Air Temperature Cable Length
Operating Air Temperature 5.5 meters (18 feet) standard
-40 °C to +71.1 °C

(-40 °F to +160 °F)

Dual Digital Meter High brightness red LED, showing

both air and pavement temperature

RF Hardened Withstands external radio frequency

effects caused by mobile radios

Digital Output* RS-232; ASCII output
Analog Output* 4 to 20 mA; 1 to 5 V

CE COMPLIANCE Directive 2004/104/EC

Applications

- Winter maintenance operations (snow plows, supervisor vehicles, etc.)
- Other fleet vehicles to increase your AVL network

DSP100 Series

PRODUCT
DSP110
DSP111
DSP112
DSP113
DSP114





For more information, visit www.vaisala.com or contact us at sales@vaisala.com

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