



Snow Surface Temperature Sensor SIR

Infrared sensor SIR to measure the snow surface temperature

The compact infrared sensor SIR provides for the exact and non-contact measurement of the temperature of the snow surface.

Features and advantages

- Highly sensitive infrared temperature sensor for the measurement of the snow's surface temperature
- Non-contact measurements, reliable and continuous data, optimum integration into existing systems
- Robust stainless steel sensor casing with separate zinc die-cast casing for the evaluation electronics (protection IP 65)
- Tried and tested for operation under harsh climatic conditions
- Non-contact temperature measurement
- Easy integration also into existing systems (signal 4 ... 20 mA or 0 ... 5 V)

Technical details

General

- **Power supply** 8 ... 36 VDC
- **Power consumption** max. 100 mA (active measurement)
- **Miscellaneous** including radiation protection and bracket

Outputs (analogue)

- **Channel 1** selectable: 0/4 ... 20 mA, 0 ... 5/10 V, thermocouple (J or K) or alarm output (signal source: object temperature)
- **Channel 2** sensor temperature (-20 °C ... +180 °C)
- **Alarm output** 0–10 V signal source switchable to object temperature or electronic box temperature if used as alarm output
- **Alarm output** open-collector-output (24 V/ 50 mA)

Input

- **Functional inputs** F1 to F3 software programmable for the following functions:
- **Functions** external emissivity adjustment, ambient temperature compensation, trigger (reset of hold functions)