

The ARC (Air & Road Conditions) system designed by PreCise MRM makes monitoring your environment in real-time easier than ever. Our wireless vehicle-mounted sensor means the installation is effortless. Capture critical weather information such as road and air temperatures, relative humidity and dew point, all from a single sensor. The remote in-cab color LCD display shares these live readings in an easy-to-read format. Operators can quickly and conveniently view air and road conditions to make appropriate decisions on road treatment.

The ARC systems are fully compatible with FORCE America SSC6100 spreader controllers and PreCise MRM GPS devices for data collection. Used together, fleet managers can maximize fleet performance and better manage their bottom line.

FEATURES

- Accurately monitor air and road temperatures, relative humidity and dew point in real-time via your mobile assets
- Wireless short-range communication uses very little power, resulting in longer sensor battery life
- Ruggedized design to withstand the rigors of the heavy-equipment environment
- Sunlight-readable color LCD display utilizes a large, clear font for at-a-glance operation
- User-selectable configuration for °F or °C
- Simplified installation with flexible in-cab mounting options for the display
- Fully compatible with FORCE America SSC6100 controllers and PreCise MRM GPS devices for data collection
- J-1708 and RS-232 outputs allow for flexible integration with other 3rd party hardware
- Made in the USA



APPLICATIONS

- Utilize your fleet vehicles as mobile weather stations to collect real-time data for critical decisions on road treatment
- Go beyond standard air and road temperatures with the inclusion of relative humidity and dew point, used to determine if treatment is needed for frost or black ice
- Improve resource utilization of both labor and material by better understanding real-time road and weather conditions
- Asphalt crews can respond on the fly to changing conditions without the need of additional handheld tools or gauges
- Paint striping crews can monitor road surface temperatures in real-time for appropriate application conditions

TECHNICAL SPECIFICATIONS

WIRELESS SENSOR

- Air Temp: $\pm 0.5^{\circ}\text{C}$ ($\pm 1.0^{\circ}\text{F}$) typical
- Relative Humidity: $\pm 4\%$ typical
- Road Temp: $\pm 1.0^{\circ}\text{C}$ ($\pm 2.0^{\circ}\text{F}$) typical
- Emissivity: calibrated to 0.95
- Field of View: 10°
- Operating Temp: -40°C to 85°C (-40°F to 185°F)
- Radio Communications: IEEE 802.15.4 (2.4GHz DSSS)
- Range: 10m (33ft) typical
- Power: (1) 1.5V alkaline D Cell

DISPLAY

- Sunlight-readable, full-color display
- Backlight: User selectable and auto-dimming
- Display Units: $^{\circ}\text{C}$ or $^{\circ}\text{F}$, User selectable
- Update Frequency: 1 to 60 seconds, user selectable
- Operating Temp: -20°C to 70°C (-4°F to 158°F)
- Radio Communications: IEEE 802.15.4 (2.4GHz DSSS)
- Range: 10m (33ft) typical
- Power: 6.5V-32V vehicle power
- Serial Outputs: RS-232, SAE J-1708, CAN



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