Measuring the weather to protect the public and improve traffic safety

High Sierra Electronics
ITS/RWIS Overview

Brett Hansen
RWIS/ITS Product and Sales Manager
High Sierra Electronics, Inc. (HSE) designs, manufactures, installs and maintains quality road weather systems, hydrological monitoring systems and meteorological instruments to improve public safety and protect the environment.

- Over 20 years experience developing, integrating and supporting open architecture remote monitoring systems around the world.

TxDOT Bridge Mount Weather & Stream Monitoring System SH35 at Brazos River
Remote Processing Units

- NTCI P RWIS & 1U MiniRWIS Remote Processing Units
  - Designed to integrate into existing infrastructure (i.e., ATC & DMS cabinets & signs) as well as new installations.
  - Supports wide variety of commercially available sensors:
    - Road Surface Condition
      - Remote (Non-Intrusive)
      - In-Pavement (Intrusive)
    - Atmospheric Sensors
      - Discrete or combination sensors
      - Air Temperature
      - Relative Humidity (RH)
      - Wind Speed & Direction
      - Barometric Pressure (BP)
      - Visibility (fog, dust, smoke)
      - Precipitation
      - Present Weather
      - Snow Depth
      - Pyranometer (Solar Radiation)
    - 2 Flood Water Level Sensors
    - Built-in Surge Suppressors
    - Each sensor drives dry contact output enabling optional local control of public safety devices (Weather Responsive Traffic Management)
    - Ethernet or EIA-232 communications
RPU In Existing Infrastructure
Kansas City Scout, MO

- Rack mount RPU with non-intrusive road sensor in an existing camera and traffic detection site.
IceSight 2020S
Mobile Non-Intrusive Surface Sensor

- Surface Temperature
- Air Temperature
- Relative Humidity
  - Calc Dew point
- Surface Status
  - Dry, damp, wet, slush, snow, and ice
- Surface Grip
  - 0-1
    - Good, Fair & Poor
- Small form factor, single unit with standard ITS camera mounting solutions
- Can be integrated into existing AVL solutions or HSE hosted solution
SNOW

Road Temp: 35 °F

Grip: 0.30 POOR

Air Temp: 31.3 °F

Dew point: 29.3 °F

Humidity: 63%

Additional Info  Help
Environment Monitoring Solutions

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Email or Call With Any Questions?
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