

KER-318 Remote Weather Monitoring Platform

KER-318 Weather Platform

**Advanced
multifunction,
multiband,
full spectrum &
remote accessible
(IP-based) weather
monitoring**

⇒ **Monitor**

⇒ **Collect**

⇒ **Disseminate**

KER 318 Weather Monitoring Platform

Built around the renowned KER-314 platform interface, the KER-318 is a remote weather collection and dissemination platform for aviation, beacon, and weather data support in hostile and harsh environments. The KER-318 is the world's most powerful yet low power consuming data acquisition system and utilizes multipath communication platforms to send and receive weather and atmospheric data from remote areas. It is designed from the ground up to be the most robust and flexible environmental data acquisition platform available. Two way communication via HF radio, BGAN satellite, GSM and/or Iridium burst allows weather data to get where it needs to go regardless of atmospheric conditions. In addition to the basic meteorological suite of wireless and remote weather sensors, visibility and cloud height sensors are also utilized. The station also has spare analog, digital and serial ports for additional weather, imagery and collection sensors. The KER-318 supports multiple types of communications for driving displays directly or for multiple telemetry outputs (e.g. hardwire and radio; radio and cell phone, dial-up phone and radio, etc.).



Communication Network

The most current and robust network communication architecture is utilized in the KER-318. Its key component, the portable ground target weather station, was developed and employed to measure weather conditions and then uplink them to airborne repeater stations along with meteorological data. The target weather station is based on a modified and reprogrammed commercial-off-the-shelf (COTS) Davis portable weather device.

Multi-powered for Multi-mission Capability

The KER-318 utilizes an auto-switching capability for maximizing efficiency of multiple inputs ranging from shore power, generator, solar or wind in order to maintain 24/7 operations.

