



**DESIGNED TO MOVE YOU**

## **SENSIS RU6 ENCLOSURE**



Sensis required an enclosure design for its next generation of remote sensing units that satisfied both the EMC and NEMA 4/12 requirements.

The enclosure that the remote unit line replaceable units (LRUs) are installed within was required to be NEMA 4/12 compliant and provide electromagnetic (EMC) shielding against radiated and conducted emissions emanating from within the enclosure. Furthermore, the enclosure needed to assist with thermal cooling of all of the internal components to prevent overheating of the LRUs.

“It was critical that the sensing units be carefully and precisely engineered—air traffic control monitoring allows no room for error” stated Robert Gardiner, Hardware Engineering Supervisor of Sensis. “The product is used world-wide in sensitive environments and various climate zones, requiring a very dependable product.”

MPE design engineers and Sensis hardware engineers worked closely to create an enclosure that functioned seamlessly with the remote sensing units and met strict industry standards. MPE also installed rails to provide heat transfer from the LRUs to the ambient air surrounding the enclosure, going beyond what was required.

MPE created a dependable, versatile enclosure that will be used for Sensis systems, worldwide.

“MPE met and exceeded our expectations in every way. Their tooling and manufacturing capabilities surpassed what we’ve experienced with other vendors” noted Gardiner. “They helped create a superior product from the valuable input in manufacturability and quality inspection tooling processes they provided. Their team of experts even identified a necessary adjustment for improved flange uniformity—changing the 0° flange angle to a -15° flange angle.”



**CHALLENGE**

**SOLUTION**

**RESULTS**