

Strip Sensors

HS-WIM® for Direct Enforcement in Kazakhstan

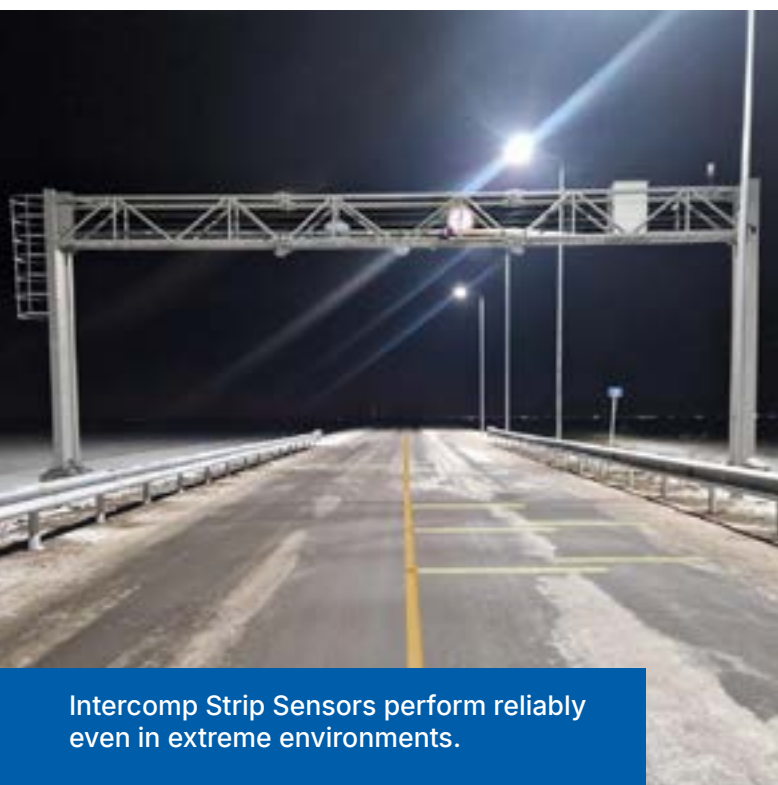
Kazakhstan has become a global leader in high-speed weigh-in-motion (HS-WIM®) systems, using them to enforce truck weight regulations without disrupting traffic. Central to this success is the use of strain gauge strip sensors from



High-accuracy Intercomp strain gauge strip sensors in Astana, Kazakhstan.

"Kazakhstan selected Intercomp's strain gauge strip sensors for many reasons, including their certified accuracy and longstanding calibration,"

- Tomas Pospisek, International WIM Business Manager, Intercomp



Intercomp Strip Sensors perform reliably even in extreme environments.

Intercomp, chosen for their accuracy, durability, and low maintenance needs—critical in Kazakhstan's harsh climate. To ensure fairness and precision, the system was rigorously tested and certified by the Kazakhstan Institute of Standardization and Metrology. The SmartWIM system, developed by Automatic Systems with Intercomp and APM Pro from Poland, integrates sensors, laser scanners, and software to deliver reliable, automated weight enforcement.

Initially, fines were issued manually after an operator reviewed data. In December 2024, Kazakhstan enabled full automation. Now, when an overloaded truck is detected, the system sends a violation notice directly to the driver via SMS and updates the Ministry of Transport's database in real time. Pilot systems in Astana revealed that nearly one-third of dump trucks were overloaded—some by up to double the legal limit. This prompted nationwide expansion. By 2025, over 100 lanes will have HS-WIM® systems.

Kazakhstan's model combines world-class technology, local expertise, and smart enforcement which demonstrates how other countries can protect infrastructure and ensure compliance on their roads.



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