



Why choose **QualiX's WIM?**

We aim to manufacture and install hi-tech weighing-in-motion systems as per client's requirements.

We incorporate Innovative and compatible tools that make our WIM system unique, cost-effective and accurate.

We believe in providing impressive WIM solutions that restrain the movement of over-loaded heavy vehicles that harm roads, reduce pollution and least the probability of accidents.

Our premium WIM system features novel components that gives us an edge over others:-

- a) Hi Quality Strain gauge based Bending plate sensors
- b) Full length vehicle separators
- c) Induction loop sensors
- d) Staggered sensors to detect direction of moving vehicle
- e) Indigenously designed indicators
- f) Ethernet to smoothen flow of electronic communication
- g) Epoxy resin adhesive grouting material for quick installation
- h) OTP protected calibration sequence for legal verification

WimXpert[®]

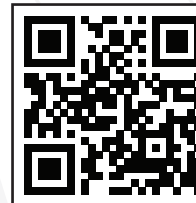
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WimXpert[®]



WimXpert[®] **Weigh in Motion Solutions**

QualiX's highly sophisticated WimXpert®

encompasses impressive technology that is designed to analyze, process and meticulously calculate axle weight, axle group weight of the heavy vehicle in relation to its speed in order to estimate its whole weight while it is in motion. Technical innovation has revolutionized conventional modes of static weighing system. QualiX's Weigh in Motion portrays a fusion of innovative tools and centralized electronic system that ensure road safety and avoid over-weighting of vehicles.

It is a robust and technologically efficient solution for toll roads, seaports, mines, low-speed and high speed weighing of overload vehicles.

QualiX's WIM features innovative technology in system

- Bending Plate QBP Series-1500/1750
- Data Collection & Processing Controller QIN Series-A100
- Infrared Vehicle Separator (QVS series-800)

Parameter		Unit	Specification
Size	Length	mm	1250/1500/1750/2000 (optional)
	Width	mm	500
	Height	mm	50(including frame)
Rated Load		T	30T/Axle
Dynamic Comprehensive accuracy		%F.S.R	±7%(0-60 km/h)
			±10% (60-120 km/h)
Landscape orientation Consistency		%F.S.R	1
Temperature Compensation Range		°C	-10~65
Working Temperature		°C	-40~100
Temperature Effect		%FSR/10°C	0.1%
Maximum Overload		%	150%
Defending Grade			IP68
Insulation Resistance		MΩ	≥5000 (10VDC)
Cable Length		m	15

What makes it better than what others do?

- Sealed Controller Cabinet with transparent lid complaining DIN EN 61439-2 IEC 61439-2 standards
- Multi-tasking Controller is technically proficient to collect relevant information of platform and separator and then, timely send the information to detection computer. Its self-inspection mode efficiently transfers the fault information via interface during unexpected fails of system.
- Automatic data caching facilitate in saving more than 10 vehicle's information intact expandable up to 50000 vehicle data's and acts in stand-alone operation if system fails to send data to computer on time as a stand-alone operation.
- LCD Screen on data processor aids in adjustment, inspection and monitoring varying axles, speed and weight of the vehicle.
- It comes with Lightening protection, Anti-electromagnetic interference & Anti-surge. Internal circuit is equipped with lightning proof semiconductor chips, transmission wire with tightly knit copper shield and four core cable insulation that can bear resistance more than 50 MΩ.

WimXpert® HSM QWIM Series

Bending Plate QBP Series 1500/1750

QualiX presents the third party patented bending plate sensors with IP 68 protection rating that gives its QBP series an edge over its competitors. Due to its highly accurate and high dynamic response frequency, it can accurately sense the dynamic pressure and signal the controller. It is ideal for highway measurement tolls and in pre-ascertaining the overloading of heavy vehicles.

Data Collection & Processing Controller QIN Series-A100

The main controller in this Weigh In motion i.e. data collection and processing controller is paramount as it processes the data sent by compatibly installed weighing sensors and vehicle separators to reckon the total weight of the vehicle.

- Sampling rate : 4000Hz
- Communication rate : 9600bps
- A/D Switch speed : 20K/second i.e. 2 million interval counts
- Signal range : 0—10mVDC
- Display accuracy : 1/30000
- Data interface : RS232/RS422/TCP-IP
- Protection level : IP65
- Temperature : -40°C ~ +80°C
- Relative humidity : 0~ 95%RH

Infrared Vehicle Separator (QVS series-800)

Purpose: This highly complex electronic device, combined with Induction loop, is capable of detecting vehicles and performs direct separation of vehicles in WIM installed toll-lanes. It identifies the separation between vehicle standing in toll queues and send signals accurately as the first vehicle leaves and next vehicle arrives.

Features:

- It performs accurately in all-kinds of weather conditions i.e. heavy rain, fog, snow or sunny.
- It can reliably separate the vehicles at a very short distance of less than 100 mm.
- It contains automatic thermostat controlled heating glass that can potentially control temperature and frost & fog resistant.
- Mild/Stainless Steel cabinet with 1.5 mm thickness plate is anti-corrosive and dust/rust proof
- Infrared technology in Vehicle separator guarantees highly accurate separation correct rate in appalling weather conditions.