
Monad Electronics

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Winner of National Award for year 2009-2010 in R&D

Monad Electronics is An ISO 9001:2000 certified company, which has over the last 13 years been involved in the business of Exporting, designing & manufacturing, Electronics Industrial products, Testing equipments, sensors and related indicating and controlling devices and allied products related to Data logging & Acquisition.

We are specialized in providing consultancy for itemized engineering Test ring and Projects. We are also interested in taking - up the project development, recommending and mfg. sensing and related components, service providing in installation & commissioning.

We are in this field from last 13 years and also Exporting our products to USA, Germany, Belgium, Turkey, Australia, UAE and African countries. We have good track record of import substitute high end equipment development and supplying to leading industries and government institutes.

Monad's Weigh-In-Motion vehicle scales offer a cost-effective means of measuring vehicle axle and gross weights without affecting the flow of traffic. Weigh-In-Motion scales are mainly used in commercial weight enforcement to screen trucks entering a weigh station returning legally loaded vehicles back to the main roadway while directing over weight trucks to the static scales.

In-motion scales are also used in Virtual Weigh Station applications to monitor traffic identifying the vehicles with weight violations and sending their image and weight information wirelessly to an officer located downstream of the scale site. Still other in-motion vehicle scales are used to weigh bulk commodities where real time information on the flow of material is required.

Monad Scale offers a full line of in-motion vehicle scales utilizing Piezo-resistive load cell and piezoelectric Load cell technologies. These scales can be used with a variety of peripherals like over-height detectors, off-scale sensors, image capture cameras, DOT and ALPR readers and others.

Custom software of Monad allows the Weigh In Motion based system to fit your exact requirements while modular hardware design ensures the ability to upgrade in the future.



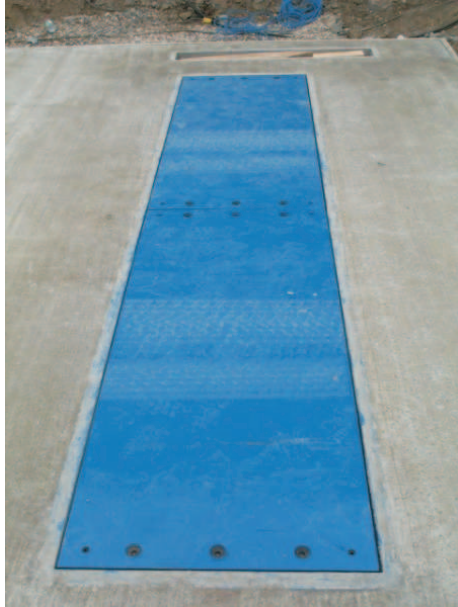
Low Speed Weigh In Motion

Low Speed Weigh In Motion systems are installed in a controlled environment such as a vehicle weight enforcement and inspection stations where the vehicle speed is controlled to approximately 10-20 kph. Accuracies to +/-1% are achievable providing the axle weigh bridge is installed in a concrete weigh lane. Automatic vehicle classification allows for immediate indication of vehicle overload dependent upon vehicle class and legal local weight limits.

Monad offer Two Type of Low Speed Weigh In Motion solutions

ML_MW55 model includes inter connectivity to other systems and includes functions to control traffic lights, entry barriers, etc,

ML_MW555 model has limited connectivity but stills functions as a weight enforcement system.



PRODUCT FEATURES

Weigh In Motion

Vehicle axle and gross weight enforcement with high accuracy; typically $\pm 1\%$ at 5 kph, accepted by most government authorities for prosecution of overloaded vehicles.

Automatic Vehicle Classification option

Option is available for vehicle classification to automatically determine vehicle infringements dependent upon class and legal weight limits.

Interface Options

Built-in interfaces (dependent upon model) for pre-selection systems; traffic control, over height detection, alarm outputs, external displays as well as connection to desktop PC and printer.

CCTV/ANPR Interface

Camera interface and control to record overweight vehicles; Automatic Number Plate Recognition to record definitive vehicle record.

High Speed Weigh In Motion

High Speed Weigh In Motion systems are installed in the main highway and weigh vehicles at normal highway speeds (20-90 kph) but will detect, count and classify vehicles from 5 kph to 120 kph. Accuracies $\pm 5\%$ (or better), are achievable on well constructed roads. The Weigh In Motion system uses unobtrusive but easily installed piezo-electric Load Cell sensors as the weighing medium.



PRODUCT FEATURES

Weigh In Motion

High speed weigh-in-motion with ± 5 % accuracy without interrupting traffic flow for statistical and enforcement purposes.

Pre-Selection of Heavy Vehicles

Pre-selection of potentially overloaded vehicles in the main traffic stream prior to a vehicle weight enforcement station

Automatic Vehicle Classification option

Option is available for vehicle classification and data storage of over 100 unique vehicle classes in 30 different categories for statistical purposes

Vehicle-by-Vehicle Data

Vehicle-by-Vehicle data storage including vehicle class, axle & gross weight, speed, number of axles, axle spacing, gap, headway, etc

Optional features :

CCTV/ANPR Interface

Camera interface and control to record overweight vehicles including vehicle number plates with suitable cameras and software

Environmental Monitoring

Including Traffic Pass-by Noise (dBs), Ground Vibration

Air Pollution Monitoring

Including NO₂, CO, Pm₁₀

Weather Monitoring

Including Wind Speed, Wind Direction, Air Temperature, Road Surface Temperature, Wet/Dry Indicator