

Application Note

Gate Access Solution



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Large industrial production facilities such as chemical or pharmaceutical plants handle a massive flow of materials daily. This constant flow can include shipments from suppliers, the transferring of needed materials between production facilities and customer shipments. The amount of time spent handling this heavy traffic can be significant when labor intensive registration procedures are used for materials tracking.

In addition, stringent safety regulations and documentation requirements often cause long delays in logistical flows compromising the overall productivity of an organization. Traditional methods used to solve this challenge involve increased labor and associated costs - and do not eliminate the potential for human error.

IDENTEC SOLUTIONS' Gate Access Solution deploys industrial strength active RFID technology that automatically identifies trucks, containers and materials at key entry and exit checkpoints. Loading zones, scales, filling stations, as well as docking zones can be monitored by IDENTEC SOLUTIONS' Intelligent Long Range (ILR®) active RFID systems.

The implementation of IDENTEC SOLUTIONS' Gate Access System results in optimized access control in the material handling and logistics processes. The automated authorization, check-in and check-out feature, means that supplier vehicles are processed at a fast pace, saving valuable time and resources while increasing the overall safety of hazardous areas. By increasing business process visibility, key performance indicator (KPI) optimization is achieved throughout the entire industrial production while diligently enforcing legal mandates.

IDENTEC SOLUTIONS' Gate Access Solution provides a holistic approach to solving an array of challenging business issues in the transportation and logistics industries and industrial parks.

Building on years of industrial experience, IDENTEC SOLUTIONS Intelligent Long Range (ILR®) products are industry leading in reliability and safety when compared to conventional gate access solutions. Combining robust, active RFID technology with optical character recognition (OCR) as well as biometric access control systems, the IDENTEC SOLUTION Gate Access Solution ensures operational reliability as well as safety.

How it works

ATEX approved active RFID transponders are mounted on the rear of trucks or containers. Upon passing a checkpoint or gate, an OCR camera documents the passing unit while biometric fingerprint scans or face recognition software validates the driver's authorization to enter an industrial production plant or hazardous zone.

Position markers such as the IDEN TEC SOLUTIONS' i-MARK 3 are mounted at loading zones, scales or docking stations enabling total visibility of all vehicles or containers while in the industrial production area.

IDEN TEC SOLUTIONS' Gate Access Solution combines best of breed industry components (or technology) and is highly customizable to fit your specific organizations needs. The flexible system architecture easily integrates with existing IT systems, providing dependable data even in the most challenging environments.

Customer Benefits

- Improved operational safety due to precise vehicle and driver authentication/authorization upon arrival or departure.
- A reduction of traffic resulting in more environmentally friendly operations.
- Increased visibility throughout the entire logistical chain of material flows. Loading zones, scales, docking stations can be monitored and provide valuable data.
- Reduced vehicle throughput time and therefore increased production capacities.
- Internet based check-in portal can be used by customers and suppliers for faster processing on-site.
- Real-time visibility throughout complex business processes enabling continuous analysis and optimization of key performance indicators.
- Improved handling of time sensitive materials increases production flexibility.
- More efficient deployment of resources and personnel result in streamlined and cost efficient operations.
- Effective management of just in time deliveries as well as just in sequence deliveries.



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