



Crawford Monitoring System – Navigation & Dock Management

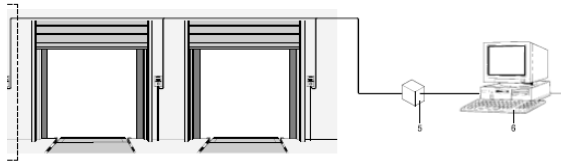
How can you reduce congestion at the dock area?

A good way to increase throughput and thereby efficiency at your logistics facility is to reduce the amount of time when no truck – or the wrong truck – is at a loading bay. A Crawford Monitoring System can tell you – in real-time – which bays are occupied or free, and for how long. It enables you to reserve bays for docking activities and inform drivers via SMS.

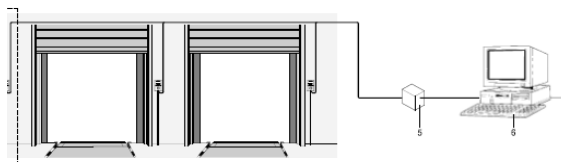
Since it incorporates information from cameras and other inputs (RFID, card readers, etc.), the system stays updated in real-time. All bays can be connected to the Monitoring System's server giving you the opportunity to supervise, monitor and report on a wide variety of aspects in your facility. You are more efficient and you can prove it.

How does it work?

1. Each bay is connected via a serial bus cable to a computer

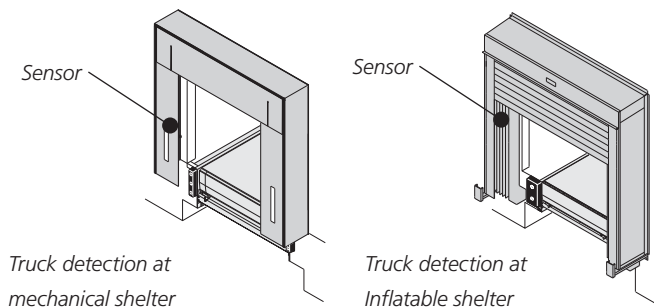


Crawford products with i-supervision or 950 docking control units can be connected directly to the server via a connection box.

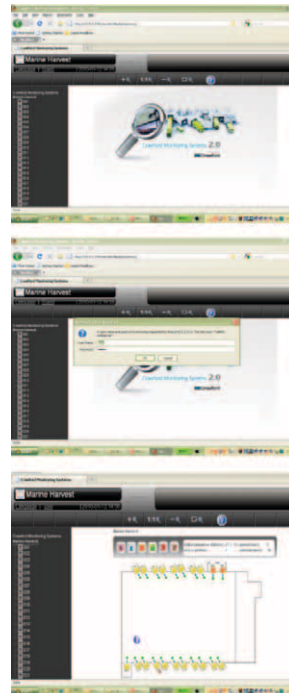


Products with other control boxes are connected via a D2G communication unit.

2. At the bay we install a sensor that will detect if the truck is docked



3. On the computer we install a web based server software that will monitor and control the activity at the bay



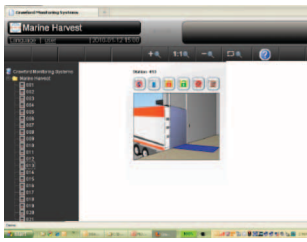
The server can be connected to Intranet or Internet. The software can also be installed, if required on a virtual server.

The access of the site is protected by a login with username and password giving the possibility to have users with different access rights.

The user has an overall view, like in a control tower, of the facility giving him complete control on what is happening at the docks, what bay is free or occupied.

With the detailed view, the user has control on the activity at the bay. He knows what dock is free or occupied and knows when trucks arrive or leave. Bays can be reserved for dedicated trucks or maintenance.

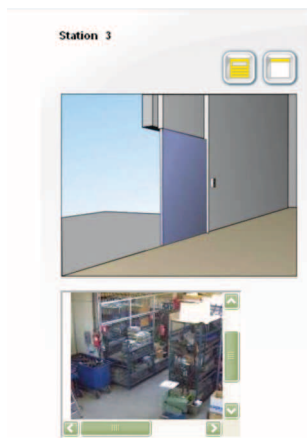
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The system can also be upgraded with:

- The remote opening & closing of the door function.
- The SMS function so that the user can send, via the system, an SMS message to the truck driver with information: Go to bay Nr, Go to Parking, Contact transport plan or any message of your choice and that in several languages.
- A Connection to your RFID Gate to inform if wrong goods are loaded in a truck.

4. Integration of Camera view



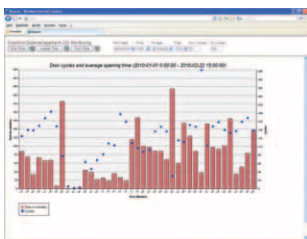
The system can be easily upgraded and we can also deliver and integrate live camera view on the bay activity.

5. Connection to ERP – WMS - TMS Systems



Crawford Monitoring System is based on an open standard OPC server and is therefore easy to connect and transfer real time information to a 3rd party System.

6. Activity Reports



As we monitor all activities at the bay we can generate statistical report on the usage of the facility e.g: average time the door is opened, average time dock at the bay. The reports are available in Microsoft excel format.

7. Requirements

Processor

Min Pentium D 3 GHz.

RAM

Min 1 GB.

Hard disk

10 GB of free space.

(the logging will require 5-30MB/Month).

Printer

Microsoft Windows compatible.

Interface

To connect the our BUS-system a free RS232 or USB interface should be provided.

Software requirements

Windows 2000, Windows XP Professional, Windows 2000 Server, Windows 2003 Server R1 and R2, Windows 2008 Server, including Microsoft .NET 1.1.

8. Cable specification UNITRONIC® BUS PA

Transmission technology RS 485

Fine-wire strand of plain copper wires, cores twisted to pairs screening braid of copper wires

Temperature range: permanently mounted –30°C to +60°C

Conductor resistance: max. 44 Ohm/km

Characteristic Impedance: (loop) 100 +/- 20 Ohm

Pairs/cores and diameter in mm: 1 x 2 x 1,0 Ø

Crawford can do much more

Our people are experts in giving you the right advice to improve your dock management. Crawford has products and knowledge to help you design your new facility and/or modernise the existing one.

About Crawford

Using our global expertise combined with local sales, service and support, Crawford delivers door and docking solutions that ensure trouble-free operation around the clock. That's why more than a million customers have chosen Crawford as their preferred solution provider.

www.crawfordsolutions.com

 **Crawford**
Solutions that work