

COMMANDsignal

Auto Status / Concrete (CS-AS/C)

Description

The COMMANDsignal Auto Status Concrete feature (CS-AS/C) is designed to automatically trigger and transmit ready mix delivery statuses from the truck's CS-VSC/C unit through one or more generating techniques. From the standard set of seven delivery statuses, four, six, or all seven may be automatically generated depending on the options chosen by the customer.

Four-status Auto Status is generated by the truck moving into or out of loading plants and delivery sites. Geo-coded loading plants become a fixed zone on a customer's mapping software. When concrete orders are taken, a geo-coded delivery zone is automatically generated. When the delivering truck is ticketed, a special job trip packet message is sent to the truck's CS-VSC/C unit. Now, the CS-VSC/C will be able to detect when the driver leaves the plant, arrives at the job site, leave the job site, and returns back to the designated plant. The statuses of To Job, On Job, To Plant, and At Plant will be automatically sent from the truck without the driver having pressed the status buttons. The driver will be responsible to press the Load status, and the Pour and Wash statuses while on site.

Six-status Auto Status can be achieved by adding the drum rotation sensors to the truck. This kit (CS-DRS) combined with CS-VSC/C logic will automatically generate the Pour and Wash statuses without driver intervention. The driver will still be required to manually press the Load status during the loading process.

All seven statuses may be generated with the addition of the TCP/IP feature and "Load Event" software to a "qualified" batch panel at the plant. Now, when the panel actuates the load process, which begins the actual truck loading process, the "load Event" message, which contains the truck's number and load quantity, will be sent to the COMMANDsignal base software (CS-Base). The base PC will, in turn, then send a special "Load Event" message to the loading truck. The loading truck's CS-VSC/C will now activate the Load status and use the loading quantity to help determine when the pour is finished and the Wash status can be sent. This last status now provides 100% automation of all seven delivery statuses. The driver will not have to manually press any status keys associated with the critical ready mix delivery process.

Features

- The truck's CS-VSC/C terminal can automatically transmit the four traveling statuses to the COMMANDconcrete truck-tracking screen. To Job, On Job, To Plant and At Plant are GPS-driven and are activated when the truck leaves or enters the plant or job site. Travel times to/from delivery sites and time analysis reporting becomes more accurate. Drivers can no longer "forget" to press the status button at the right time.
 - When a drum rotation sensor kit (CS-DRS) is added, the Pour and Wash (end pour) statuses become automated. The driver does not have to be in the truck cab to push the terminal status button for Pour and Wash. On job standing time, pouring time, and washing time becomes much more accurate for billing and reporting processes.
 - When the "Load Event" option (CS-Load) is added to a "qualified batch control panel, the most accurate means to signify the start of the load is created. The Load status is transmitted from the truck when the aggregates or ready mix start pouring into the mixer's drum. The batch control tells the signaling unit to go to the Load status without the driver having to push the status button.
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Prerequisites

- A COMMANDconcrete system (Version 4.26 or above) with appropriate modules:
 - CC-OE (COMMANDconcrete – Order Entry and ticketing) feature
 - CC-TT (COMMANDconcrete – Truck Tracking) feature
 - CC-AS (COMMANDconcrete - Auto Status) feature
 - CC-MO (COMMANDconcrete – Map Order entry) feature
 - CC-MT (COMMANDconcrete – Map Truck-tracking) feature
 - Note: All mapping options require a licensed copy of Microsoft MapPoint 2002 installed on each network PC as required. Customer purchases.
 - CS-Base (COMMANDsignal - Base Software) installed on a qualified PC.
 - CS-VSC/C (COMMANDsignal - Vehicle Status Computer/Concrete) equipped with the GPS feature (CS-GPS) installed in each mixer truck as required.
 - Option CS-DRS (Drum Rotation Sensor) kit in each truck for six-status automation.
 - Option CS-Load (Batch “Load Event”) kit on each batch control for the Load status.
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Automation of the Truck Tracking Statuses

CS-VSC/C Status	4-Auto Status	6-Auto Status	7-Auto Status
In Service¹	Manual or Automatic	Manual or Automatic	Manual or Automatic
Load²	Manual	Manual	Automatic
To Job	Automatic	Automatic	Automatic
On Job	Automatic	Automatic	Automatic
Pour³	Manual	Automatic	Automatic
Wash³ (End Pour)	Manual	Automatic	Automatic
To Plant	Automatic	Automatic	Automatic
At Plant	Automatic	Automatic	Automatic
Out Service	Manual	Manual	Manual
Required Option(s)	CS-GPS	CS-GPS, CS-DRS³	CS-GPS, CS-DRS³, CS-LOAD²

¹Automatic In Service can be enabled in each truck with a user-selected timer setting.

²The “qualified” batch control must have the TCP/IP option and software installed to create the “Load Event”.

³The Pour and Wash (end pour) status requires that the Drum Rotation Sensor option (CS-DRS) be installed.

Equipment Configuration

- The CS-VSC/C must be equipped with the GPS receiver option and roof-mounted or side mirror-mounted GPS antenna. All CS-VSC/C units with the GPS option and up-to-date firmware are automatically eligible for Four, Six, or Seven “Auto Status”. Operation on the Government’s GPS system is free.
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GPS-driven

- Drivers move trucks from the loading plant to the delivery site and return as usual. The GPS-equipped CS-VSC/C will automatically transmit the associated delivery status.
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Add-on Options

- Drum Rotation Sensors on the truck trigger Pour and Wash events.
 - “Load Event” feature installed on the batch control to signal the truck CS-VSC/C unit to transmit the Load status. See CS-LOAD
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For more information contact a sales consultant at:

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