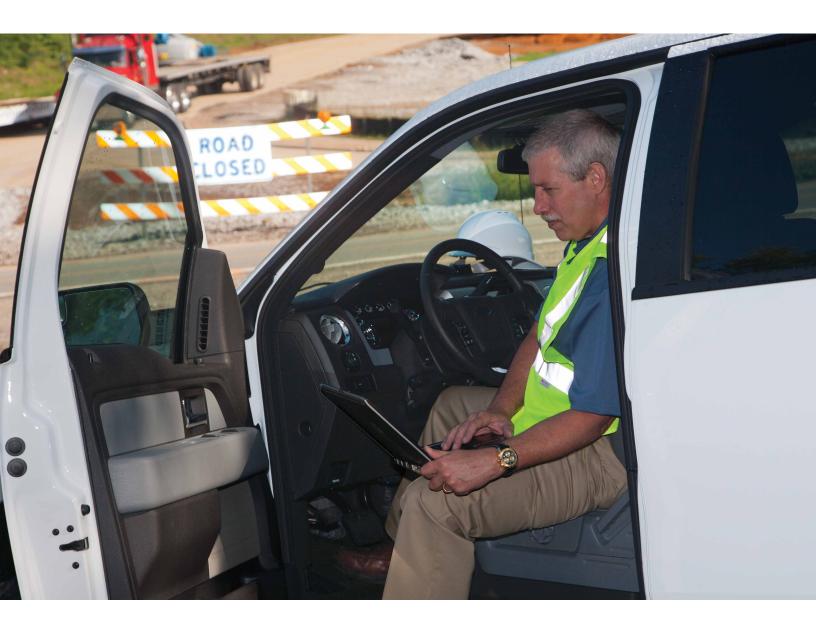
TELEMATICS SYSTEM

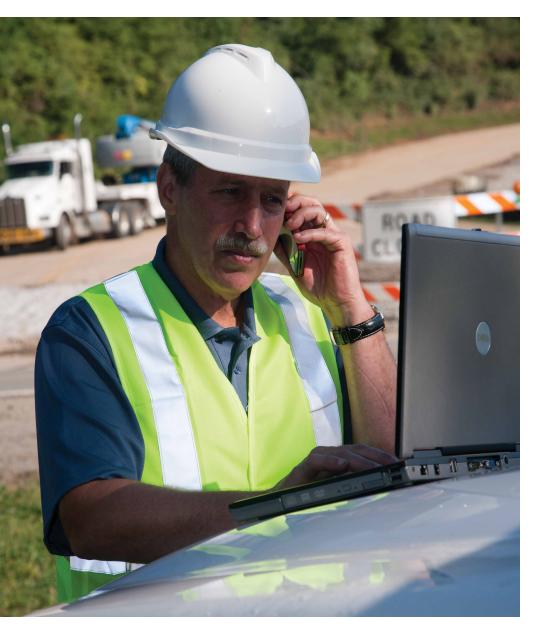
Guardian®







MONITOR, TROUBLESHOOT, AND MAKE ADJUSTMENTS REMOTELY OR AT YOUR MACHINE WITH GUARDIAN® TELEMATICS



Roadtec Guardian® Telematics

The Roadtec Guardian[®] Telematics System consists of software, onmachine viewing screens, and wireless signal boosters to send and receive data at the machine. Numerous functions such as engine data and fuel consumption can be viewed at the machine or on your computer screen from a remote location.

Guardian[®] Telematics comes standard on:

- RP-190/195 pavers
- RX-600, RX-700, and RX-900 cold planers
- SX-6 and SX-8 soil stabilizers/ reclaimers
- SB-2500 and SB-1500 Roadtec Shuttle Buggy[®] MTV

*Optional on RP-170/175, MTV-1100, MTV-1105, and RX-300

Help from Roadtec service is only a phone call away! They see the same information you see and can guide you through the fix or do it for you.

Monitor & Troubleshoot Your Machine's

- Fuel Consumption
- Engine Codes
- Alarms
- Starting Circuit
- Cutter Circuit
- Auto Water Circuit
- Conveyor Speeds
- Propel Functions
- Load Control
- Steering Circuit
- Machine Production
- Grade & Slope
- Hydraulic Pressure
- Engine Dashboard

Fuel PSI	Turbo Boost PSI	Engine % Load	Travel Speed FPM
N/A	2.32	19	0
Fuel Temp	Coolant Temp	Inlet Air Temp	Fuel Tank Level
32	181	89	FULL
Battery Voltage	Oil PSI	Engine % Soot Load	Total Fuel Used
27.50	38.9	1	7125.9
Engine Speed	Engine Hours	Inst. Gal/Hr	Avg. Gal/Hour
1069.5	910.7	2.0	7.82
	Engine Idle Hours	Total Idle Fuel Burn	E DEF Fluid
	49.6	75.8	TIER 4 FINAL ONLY
Active Engine Fault Codes	49.6		TIER 4 FINAL ONLY
Active Engine Fault Codes	49.6		
	49.6	75.8	Hours Until Service
	49.6	75.8	Hours Until Service
	49.6 FMI	75.8	Hours Until Service 113.6 FORCE INHIBIT
Fault Code	49.6 FMI	75.8	Hours Until Service 113.6 FORCE REGEN INHIBIT REGEN Request Previously
Fault Code PreviouslyActiveEngine Fa	FMI FMI	75.8	Hours Until Service 113.6 FORCE REGEN INHIBIT REGEN

Real-time Machine Data

See everything instantly: from fuel consumption, fault codes, time to service intervals, machine speed, grade and slope settings, or even the exact location of the machine (via GPS).

Designed by Roadtec for Roadtec

Guardian[®] Telematics is for Roadtec customers who are looking to dramatically lower operating costs and increase productivity.

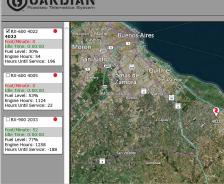
View Remotely and On-board the Machine

Log into the machine from your computer or you can view the information on the machine's display screens.

Strong Signal with Cell Booster

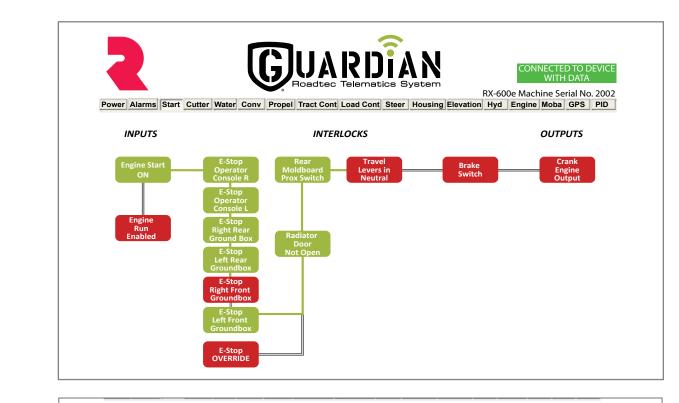
The connection to and from the machine is wireless and uses a cell booster to ensure a strong signal. If an Internet connection is unavailable at any given location, the on-board computer stores faults until the connection is restored and then sends the e-mail.

GUARDIAN



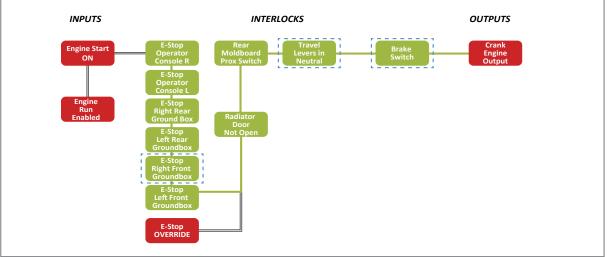
Your machine can be located by GPS using the Guardian[®] system.

THE GUARDIAN SYSTEM SHOWS MACHINE CIRCUITS & SYSTEMS AS LIVE SCHEMATICS SO ISSUES CAN BE SOLVED INSTANTLY.



2.

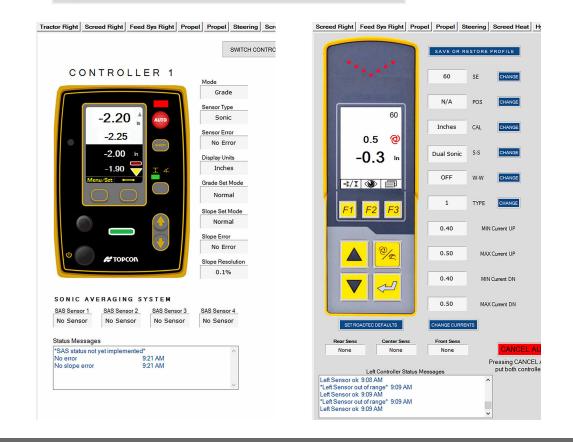
1.



1. TROUBLESHOOTING: MACHINE WON'T START THE START CIRCUIT VIEW SHOWS: Right Front E-Stop activated. Travel Levers are not in neutral. Parking Brake is not on.

2. MAKE CORRECTIONS

THE START CIRCUIT VIEW SHOWS: Right Front E-Stop is deactivated. Travel Levers are now in neutral. Parking Brake is now on. Cutter Water Conv Propel Tract Cont Load Cont Steer Housing Elevation Hyd Engine Moba GPS PID Production 4 4 Production Data Daily Totals Total Tons Material Discharge Display 16.27 Total Square Yards Time Elapsed Loading Truck 05:32 Total Cubic Yards Width of Milling Cut Total Trucks Loaded Total Linear Feet Left Right Depth Of Cut Total Fuel Burn 0.0 -2.2Total Work Time HH : MM Inches Depth Measurement Mode Automatic Average Truck Loading Time Select Full Pass Width Full Pass Estimated Time Of Completion Teeth Changed Reset Discharge Display Reset Zero Setup And Calibration Machine Totals Total Tons 13897.2 Calibration Tons/Cubic Yard Total Square Yards 226567.7 Change Width of Milling Cut 6.58 Total Cubic Yards 6948.7 1.80 Set Fixed Depth of Cut Total Trucks Loaded 617 Select Depth Measurement Mode Automatic Total Linear Feet 309895 Select Operation Mode Automatic Total Fuel Burn 5500.3 Enter No. Teeth Changed 0 ÷ Total Work Time HH : MM 135:38



Average Truck Loading Time Total Teeth Used 05:09

0

Monitor and record daily totals, machine totals, and live scale data.

GUARDIAN PRODUCTION

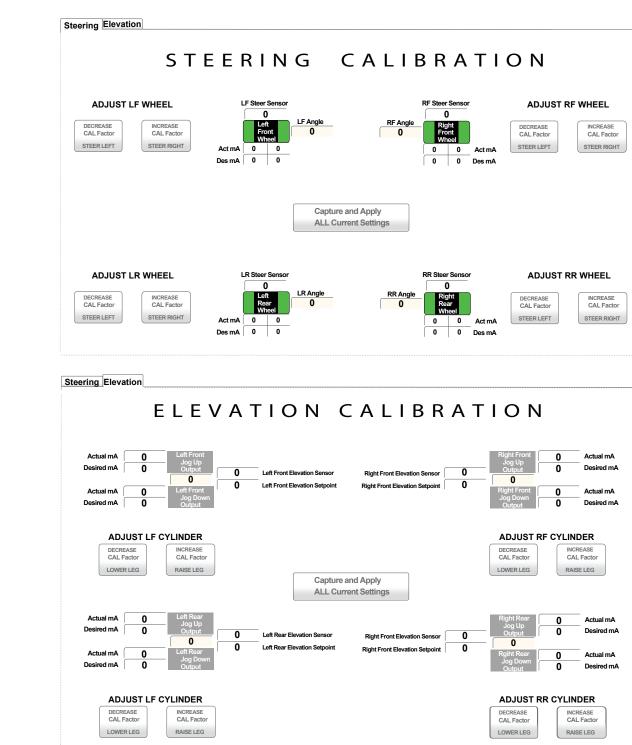
4.

Guardian works with most major brand grade and slope controls, including ACE™, MOBA®, and TOPCON®. Controls up top let the operator control both sides. Now you can work with at least one less ground man.

3.

4.

3.

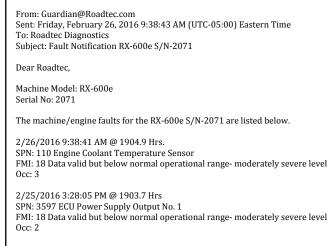


6

6. ADJUST ELEVATION CALIBRATION

STAY CONNECTED TO ROADTEC AND YOUR CREW. ADDRESS YOUR MACHINE ISSUES QUICKLY AND SAVE MONEY BY ELIMINATING FALSE ALARMS AND WASTED TRIPS.





Know What's Happening

Control how and when you will receive automated email alerts about maintenance schedules. See part numbers for service items such as filters. Designate someone of your choice to receive e-mails from the Guardian Telematics System concerning any fault codes that may be generated. Your designated people can log on to the machine and address the problems. Finally, you can also call Roadtec service, and have a Roadtec service technician dial into your machine to confirm and help resolve issues.

The Bottom Line: Benefits

- Save money spent on sending mechanics into the field to locate issues
- Minimize down time by isolating and correcting problems within minutes
- Increase machine life and uptime by performing all scheduled maintenance
- Eliminate false alarms and wasted trips
- Use production data to fine tune your operation and maximize productivity
- Monitor machine processes in real time



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