

# RADION APPLICATION RATE CONTROLLER

## RELEASE NOTES

### Radion 8140 v1.13

October 2025

Associated Documentation:

- Manual 98-05311 R6
- Guide 98-01467 R6

Fix:

- Corrects a problem that prevented Boom Section Control when connected to TeeJet Matrix 908 consoles running v1.52 and later.  
Currently approved for 5, 7, & 9 section Radion consoles. Approval for 11 and 13 section consoles pending.



### Radion 8140 v1.12

April 2023

Associated Documentation:

- Manual 98-05311 R6
- Guide 98-01467 R6

Updates made to support new Production requirements

### Radion 8140 v1.11

July 2021

Associated Documentation:

- Manual 98-05311 R6
- Guide 98-01467 R6

New Features:

- Pressure Log records actual pressure every 10 second for the last hour
  - Option to export logged pressure data to pdf file
- Display smoothing and flow/pressure cross check settings are now a part of the stored Radion configuration.
- Configurable Paired Switch options to select which switches operate section outputs with more than 9 sections

Fix:

- Optimized the low level configuration of different types of Radion hardware

### Radion 8140 v1.10

May 2020

Associated Documentation:

- Manual 98-05311 R5
- Guide 98-01467 R5

Fix:

- Corrects problem introduced in v1.09 where CAN communications with Matrix Pro GS consoles for Automatic Section Control did not work.

# RELEASE NOTES

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## Radion 8140 v1.09

March 2020

Associated Documentation:

- Manual 98-05311 R5
- Guide 98-01467 R5

New Features:

- Added Night mode feature so user can quickly change User Interface Color Scheme and LCD Brightness between Day Mode and Night Mode settings
- Multiple changes to align nozzle specifications with international standard ISO 25358, including but not limited to changing the Coarse droplet size category color from Blue to Green, and the Very Coarse droplet size category color from Green to Blue. Previous alignment of nozzle specifications was with ASABE Standard S572.
- Added nozzles families AI80, TTI60-110, TX, TXA, & TXR and added new nozzle sizes to existing families
- Extended the TeeJet CP4916 Flow Regulator/Orifice Plate selection from CP4916-18 to CP4916-81
- Added Turf Mode (US units only) to 13 boom section consoles.

*NOTE: This feature is not supported by all Radion configurations. Contact TeeJet Support for more information).*

Fixes:

- Now includes XR80025 & XR80035 nozzles and correctly aligns XR nozzle sizes & colors
- Addition of multiple nozzles previously missing from existing nozzle families
- Corrects Finnish language abbreviations for 'Man. Reg' and 'Auto Reg' buttons
- Corrects problems where Finnish language selection was not saved through a power cycle

## Radion 8140 v1.08

April 2019

Associated Documentation:

- Manual 98-05311 R4
- Guide 98-01467 R4

Fix:

- Corrects problem where the console would sometimes not power off when the power button on a running system was pressed

## Radion 8140 v1.07

May 2018

Associated Documentation:

- Manual 98-05311 R3
- Guide 98-01467 R3

New Features:

- Now possible to use decimal points on flow calibration figures, enabling the use of flow meters with low number of pulses per liter
- Customers experienced high pressures in cases where the operator stopped the pump while Idle pressure was active. We have implemented a timeout, so if pressure does not increase within 2 times the valve regulation time the unit will set regulation valve to default regulation valve position.
- Added Finnish language option

Fixes:

- Output for automatic filling valve dropped out in version 1.06 and has now been reinstalled
- It is now possible to make flow meter calibration above 420 pulses/liter
- Fill valve output is now activated when activating fill flow meter calibration.
- Import/Export of OEM settings do now handle sections setup correct.

## Radion 8140 v1.06

March 2017

Associated Documentation:

- Manual 98-05311 R2
- Guide 98-01467 R2

New Features:

- Added default valve position. Will move to default position after 15 minutes with master switch off.
- Start up alarm if simulated speed is active
- OEM logo available via USB app
- Added Idle pressure (for non-circulation systems)
- Implemented display smoothing deadband in OEM menu

Fixes:

- Updated support for up to 13 boom sections
  - It is now possible to have 11 sections on a 9 switch standard unit
  - It is now possible to have 13 sections on a 9 switch unit, but it will prevent the use of fill flow/tank sensor.  
*NOTE: Max number of physical switches are still 9.*  
*Using more than 9 sections they will be paired across the 9 switches, but will work as individual sections on ASC mode.*
- Graphics in display corrected (size of section bar now adapting to amount of sections)
- Pressure/Speed diamond can no longer move outside the pressure bar

## Radion 8140 v1.05

June 2016

Associated Documentation:

- Manual 98-05311 R1
- Guide 98-01467 R1

New Feature:

- System will fall back to using the Implement Speed source if CAN speed stops and Implement Speed is set to Active and is calibrated. If Implement Speed is not Active, or is not calibrated, speed falls back to Simulated Speed.

Fixes:

- Corrected problem where sometimes the Minimum Flow Alarm was shown when operating in pressure based control mode
- Corrected problem where some v1.04 devices would not accept an ASC unlock code

## Radion 8140 v1.04

February 2016

Associated Documentation:

- Manual 98-05311 R0
- Guide 98-01467 R0

New Features:

- Added Russian language
- Added Circulation Mode. (This feature is not supported by all Radion configurations. Contact TeeJet Support for more information.)
- Added support for up to 13 boom sections. (This feature is not supported by all Radion configurations. Contact TeeJet Support for more information.)
- New application rate unit of 'US gallons per 1000 square feet' added for the North American Turf market. (This features is only supported on Radion consoles sold in North America.)

Fixes:

- Corrected problem where regulation at very high flow rates was incorrect
- Firmware updates now run regardless of when the USB Drive is inserted in the console.
- Some setup screens changed to better display machine configurations across the supported languages
- Made the power-down and data save procedures more robust
- Improvements to several of the supported languages

## Radion 8140 v1.03

September 2014

Associated Documentation:

- Manual 98-05311 R0
- Guide 98-01467 R0

Fix:

- Prevent console lock-up with some harness/valve combinations

## Radion 8140 v1.02

April 2014

Associated Documentation:

- Manual 98-05311 R0
- Guide 98-01467 R0

New Features:

- New Languages: French, Italian, European Spanish, Central/South American Spanish, Hungarian, Czech, Dutch, German, Brazilian Portuguese, Polish, Slovak
- Added alarm for low supply voltage

Fixes:

- Multiple small changes to menus, GUI, etc. to make product easier to use
- Corrected condition where some alarms were previously suppressed
- Better handling of low-current boom valves

## Radion 8140 v1.01

August 2013

Associated Documentation:

- Manual 98-05311 R0
- Guide 98-01467 R0

New Features:

- Variable Rate Control added using LH5000 protocol.
- Enhanced power down sequence requests operator confirmation
- OEM Splash screens added
- Operation screen access to recent alarm event list
- Last 50 alarm events are listed in Settings->Diagnostics and can be exported to USB Drive

Fixes:

- Corrected problem when connected to Matrix ABSC, Auto Booms OFF, where tank volume would continue to count down on some sprayer configurations

## Radion 8140 v1.00

May 2013

New Features:

- Global first release of Radion series
- Single product/channel liquid automatic rate control
- Flow and/or Pressure based
- 5, 7 & 9 boom-switch options
- Built-in Droplet Size Monitor
- Compatible with TeeJet Technologies® 800 series cabling
- Optional Automatic Boom Section Control (ABSC) with CAN connection to TeeJet Technologies® Matrix® Pro GS console
- English-US and English-International languages only for this release



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