



**Count on it.**

# TORO<sup>®</sup> SENTINEL<sup>®</sup> APPLICATION NOTE

## AN04: ACTIVITY / ALARM MONITOR

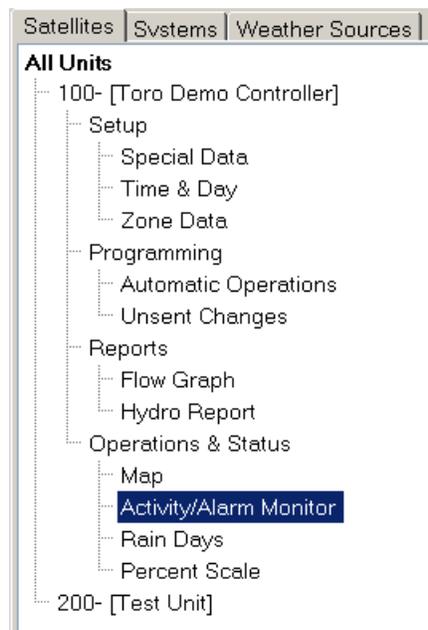


## ACTIVITY / ALARM MONITOR IN SENTINEL®

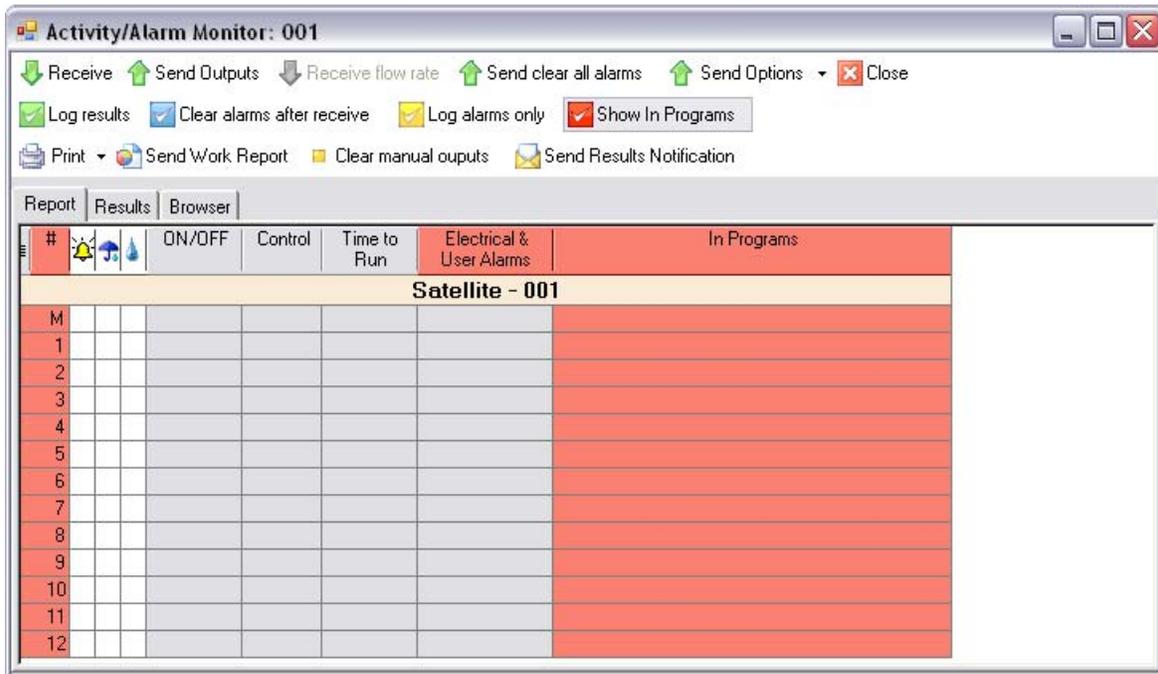
### Activity / Alarm Monitor Overview

The Activity/Alarm Monitor screen combines the separate Satellite Manual/Output Status and Alarms screens from previous versions of Sentinel into one utility. The options provided for Manual/Output Status enable individual satellite stations to be started and stopped as needed. A temporary station run time is assigned for manual operation, ranging from 1 to 255 minutes. The settings provided for Alarms, enable all critical satellite operating parameters to be defined and monitored at all times. Any condition that meets the Alarm criteria, is flagged and reported during routine polling and specified polling communications.

The Activity / Alarm Monitor utility is accessed through the left-hand navigation Tree in the Satellites Tab under Operations & Status for an individual satellite:



The layout of the Activity / Alarm monitor screen is a list format to more easily support the operation of 204-station two-wire satellites:



To verify status, the user must click the **Receive** button. 

Once received, the data is displayed in the list. The first three columns indicate:

-  whether an alarm or warning is present,
-  if rain days or station-off days are set present, and
-  whether or not the station has watered since the last change of day.

### Functions / Buttons

**Receive** - Receives all data, except current flow information, from the unit in the field.

**Send Outputs** - Sends manual output operation requests to the unit.

**Receive flow rate** - Receives the current rate of flow from the unit if a flow meter is installed and configured.

**Send clear all alarms** - Clears all alarms in the unit.

**Send Options:**

- **Clear all alarms** - Clears all alarms in the unit (same as Send clear all alarms button).
- **Clear elec/user alarms** - Clears only electrical, and user set alarms.
- **Clear comm alarms** - Clears only communication failure alarms.
- **Clear flow alarms** - Clears only flow related alarms.
- **Send elec/user alarm** - Sends user set alarms to the unit to disable station outputs.

**Log results** - Adds the received information to the system log.

**Clear alarms after receive** - Sends clear all alarms after alarms have been successfully received.

**Log alarms only** - When selected, only alarm information is committed to the system log.

**Show In Programs** - Shows or hides the In Programs area in the Report window. This area displays what programs each station is assigned to when enabled.

**Print** - Prints the results.

**Send Work Report** - Creates a .pdf file containing the information displayed in the Report tab. Holding the Ctrl key and clicking on this button immediately opens the file for display. By default, the file is stored in My Documents\Toro\Sentinel WMS\logs.

**Clear manual outputs** - Clears all manual output selections. This provides a quick way to turn off all manual outputs by clearing all, then sending outputs to the unit.

**Send Results Notification** - Sends the information contained in the results screen via email to any addresses configured in the Notifications area of Setup.

**Report Tab** – Provides summary list of stations and overview of conditions and ability to manually start / stop stations.

**Results Tab** - Provides detailed information about runtime and alarm/warning data received from the unit.

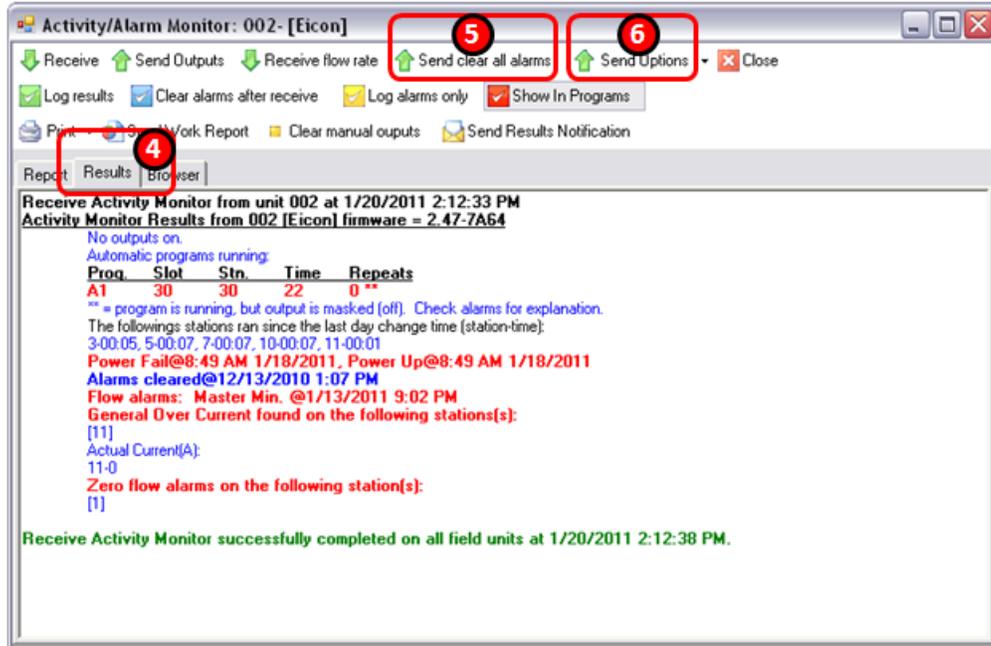
**Browser Tab** - Provides an overhead map view of the latitude/longitude defined in the Global tab of the units Special Data. An internet connection is required to retrieve the map information.

### Alarms/Warnings

1. **Report Tab**
2. The first column to the right of the station number is to report the existence of an Alarm/Warning. If an alarm or warning is present in the unit, a bell or exclamation mark will be displayed next to the offending station.
3. Available alarm/warning info is displayed in the Electrical & User Alarms column to the right.

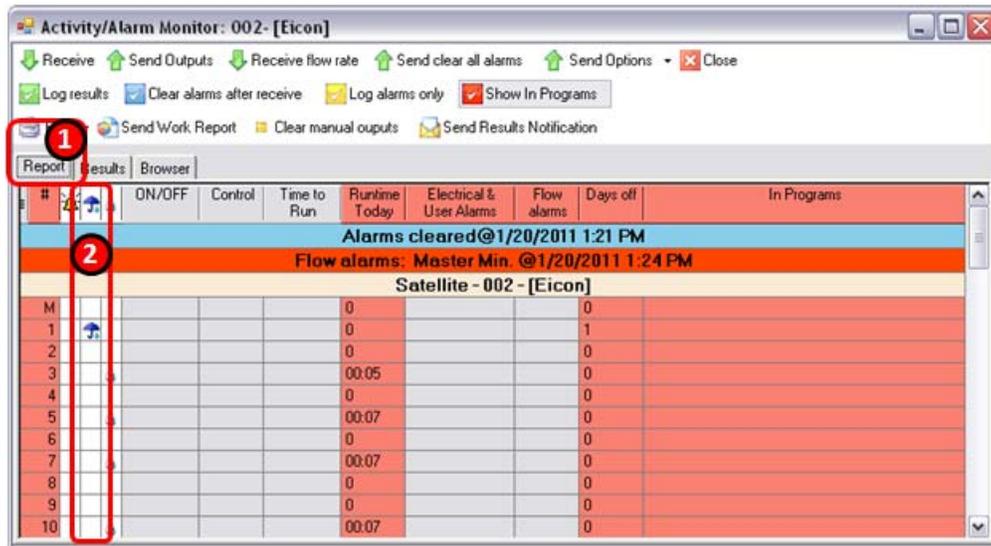
#	ON/OFF	Control	Time to Run	Runtime Today	Electrical & User Alarms	Flow alarms	In Programs
Alarms cleared@12/13/2010 1:07 PM							
Power Fail@8:49 AM 1/18/2011, Power Up@8:49 AM 1/18/2011							
Flow alarms: Master Min. @1/13/2011 9:02 PM							
Satellite - 002 - [Eicon]							
1				0		Zero	
2				0			
3				00:05			
4				0			
5				00:07			
6				0			
7				00:07			
8				0			
9				0			
10				00:07			
11				00:01	General		
12				0			

- Detailed information about the alarm/warning can be found in the Results tab.
- All alarms can be cleared by clicking the Send clear all alarms button.
- Individual alarms can be cleared using the Send Options drop-down button.

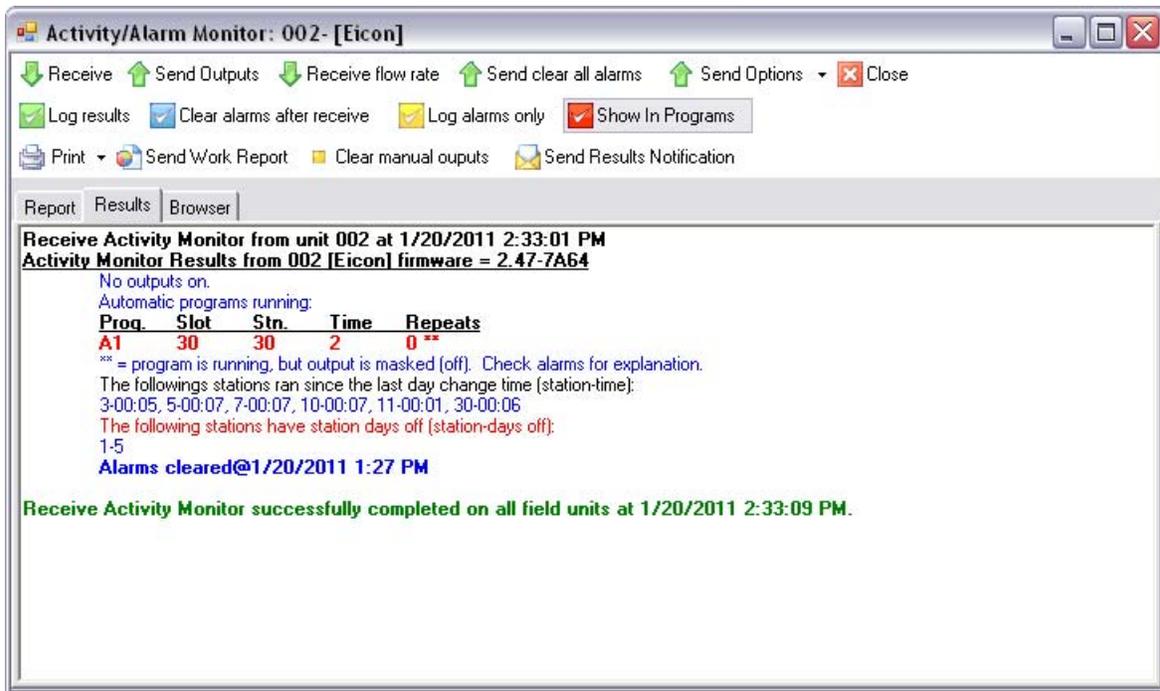


### Rain Days / Station Off Days

- Report Tab
- If a station has rain days, or station off days present, an umbrella icon will be displayed in the second column.

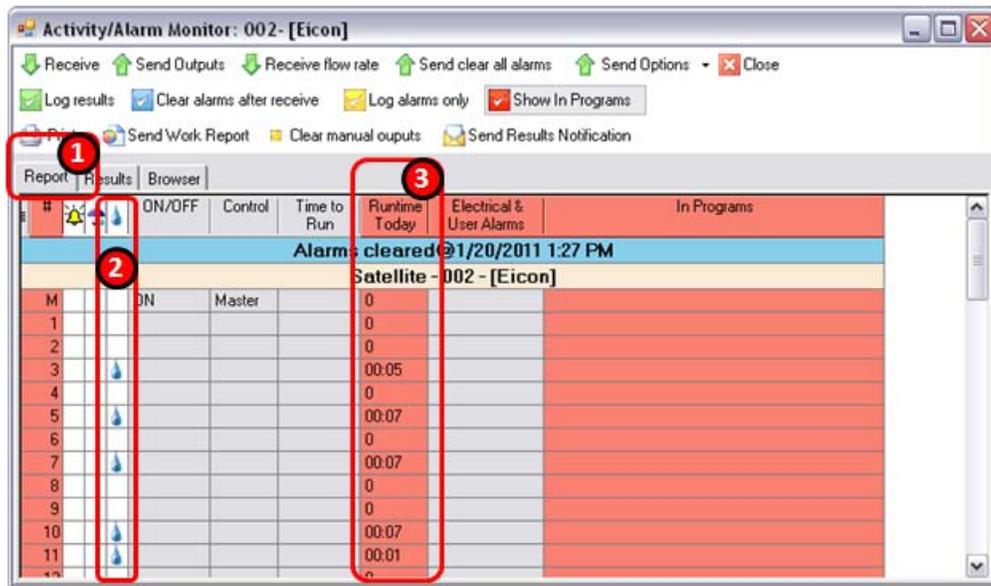


- Detailed information about the days off can be found in the Results tab.

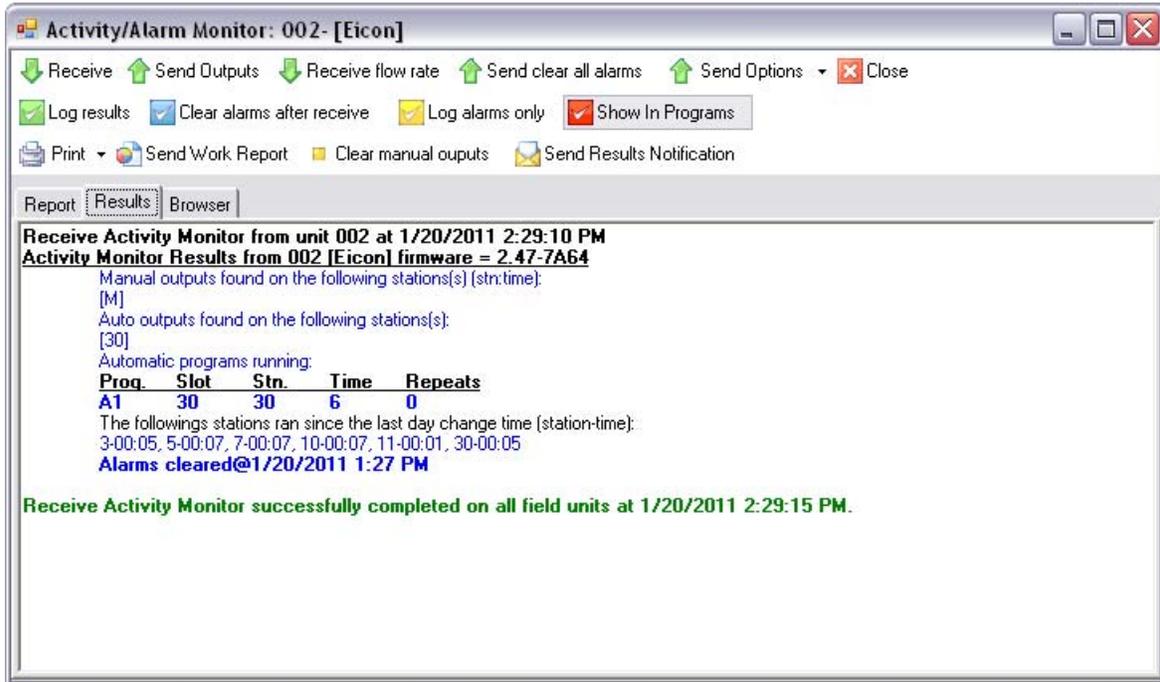


### Station Watering

- Report Tab
- If a station has watered since the units last change of day took place, a raindrop icon will be displayed in the third column.
- The amount of time the station ran will be displayed in the Runtime Today column.



- Detailed information about each station's runtime can be found in the Results tab.

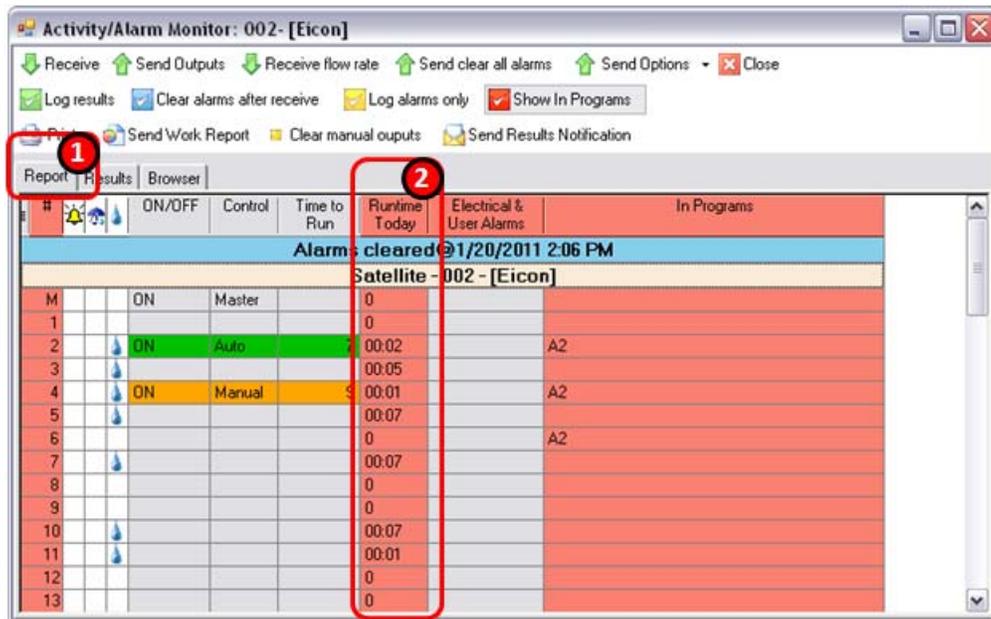


### Station Runtime Reporting

- Report Tab

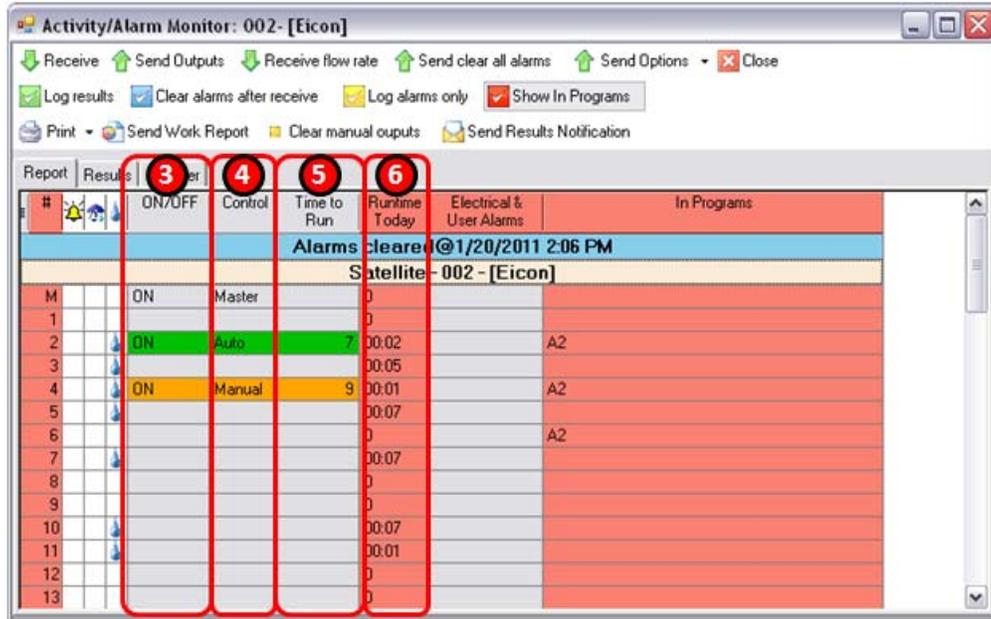
*If a station has completed running:*

- The Runtime Today column indicates how long the station ran.

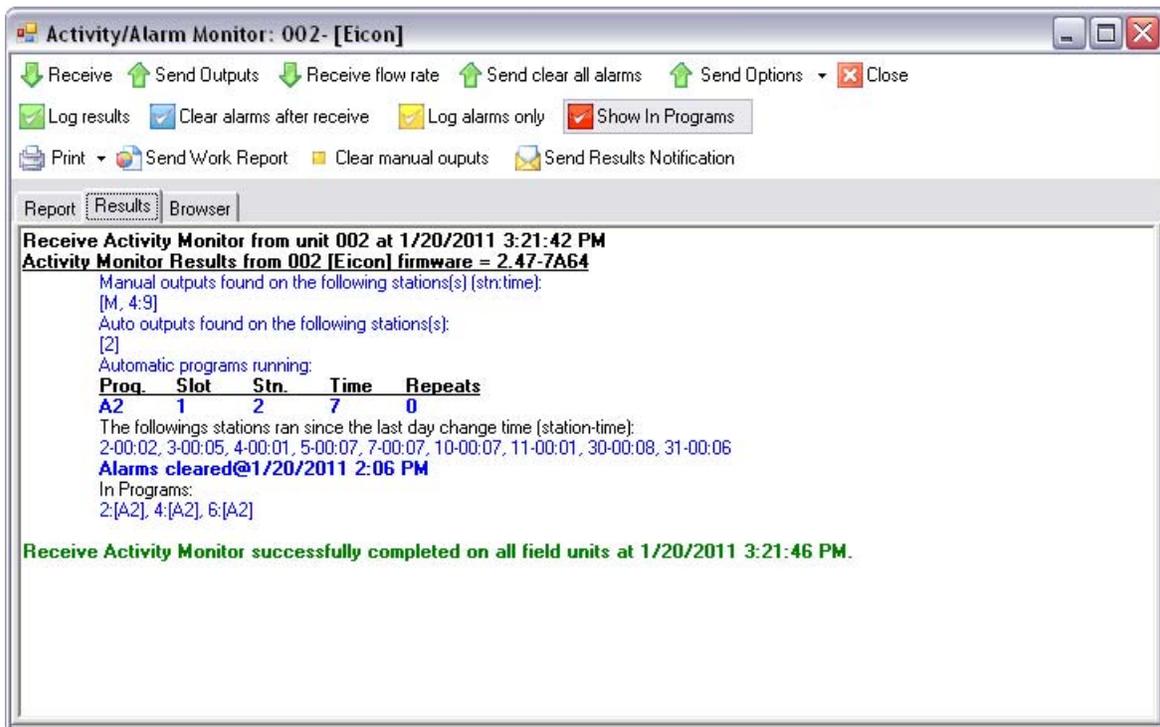


**If a station is currently running:**

3. ON will be displayed in the ON/OFF column.
4. The Control column indicates how a station is running. "Auto" for scheduled irrigation, and "Manual" for manually started irrigation.
5. The amount of run time left will be displayed in the Time to Run column.
6. The Runtime Today column indicates how long the station has ran.



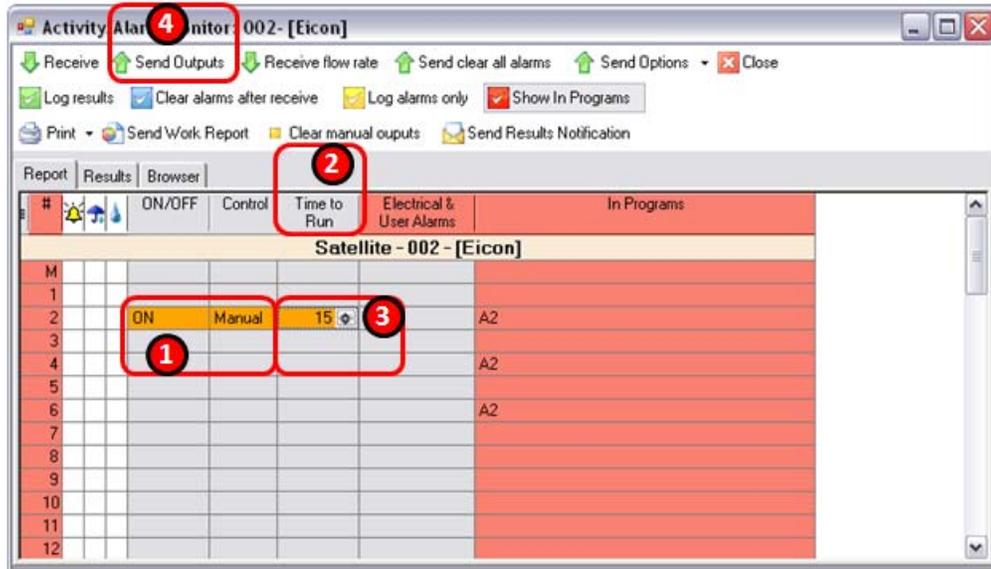
7. Detailed information about the currently running stations can be found in the Results tab.



## Manual Station Operation

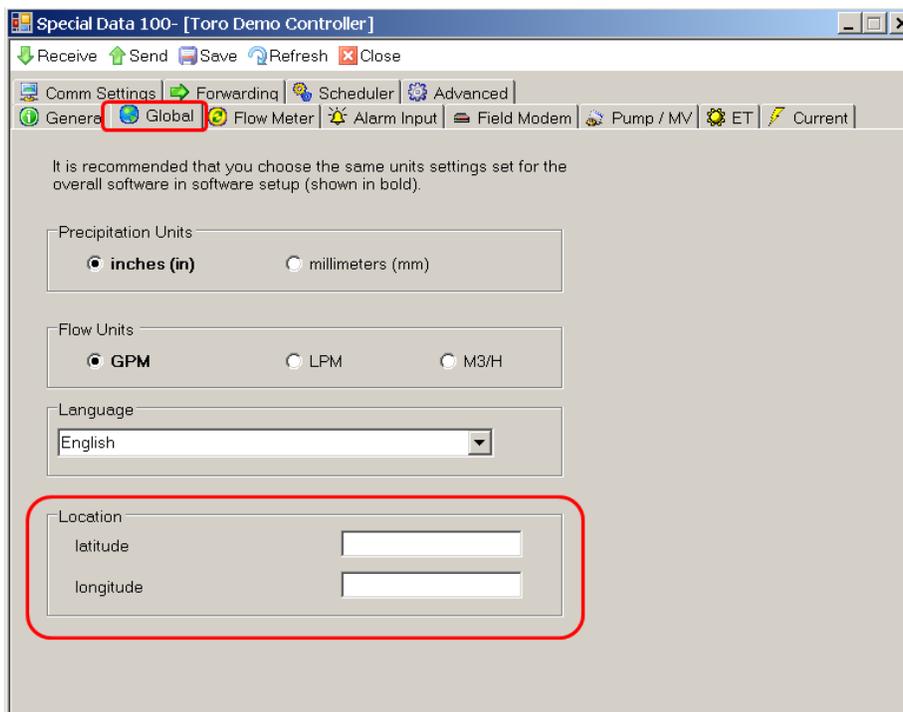
A station can be manually started from the Report Tab.

1. Click the desired station's ON/OFF cell. This will enable Manual control. The cell should turn Orange with ON in the ON/OFF Column and Manual in the Control Column.
2. The run time will be displayed in the Time to Run column (default 30 minutes)
3. The Runtime can be changed using the keyboard, or the up/down buttons in the cell.
4. To start the station(s), click the Send Outputs button to send



## Browser Tab

The Browser Tab Provides an overhead map view of the latitude/longitude defined in the **Global** tab of the units **Special Data**. An internet connection is required to retrieve the map information.



Click the **Locate All**  button on the main menu when the Activity/Alarm Monitor is open (does not have to be in the Browser Tab at the time) to retrieve the map information from the internet.

