

Watering System Controller Firmware

Version 1.5

Note This firmware is for the Raspberry Pi Pico (not the Raspberry Pi Pico 2).

New features:

- Written to suit Ver 6.00.01 of the WebMite firmware for the Raspberry Pi Pico. This has eliminated the random reboots that the previous firmware suffered from. This firmware is included in the downloads in this zip.
- On the General Settings page you can configure logging of events from nothing to detailed debugging information.
- To ensure that the protocol stacks are reset the firmware will do a controlled reboot every day at a random time from midnight to 50 minutes after midnight. During this restart the weather forecast for the next 24 hours is loaded and is displayed on the home web page. As a consequence the firmware will not allow a schedule to be configured to start before 1AM.
- Numerous small changes to the content of the log file and the web pages to generally improve the experience.

Upgrading from a Previous Version

Loading this firmware will erase the contents of the internal filesystem (drive A:) so any important files on that must be saved first. This particularly applies to the file *settings.dat* which is where the configuration settings are saved.

Use xmodem or TFTP to copy that file before upgrading then copy it back following the firmware load (see page 72 in the *PicoMite_User_Manual.pdf*). The firmware will automatically upgrade the configuration file as required.

Loading the Firmware

There are two methods of loading the firmware:

1. Loading a pre configured image as described in the folder "Pre Configured Image". Full instructions are in that folder.
2. Loading the various files individually as described in the magazine article. These files are located in the folder "Individual Files". Detailed instructions for this process are in that folder.