



Release Notes for Massa Python V1.14 & M3 Sensor Firmware V32.xx



Firmware and Python Upgrades Main and Massa FW, Python

Sensor ultrasonic firmware and Python code (from previous release V1.10) have been updated to feature new sensor settings allowing to increase the blanking range beyond default values (see User's or Developers Guide for details). In applications where the ultrasonic transmit pulse is stretched due to the vapor from the material or if a sensor is mounted in a narrow breather pipe, these new settings will increase the blanking range.

Sensor Firmware (Main) Version 32: No change in the main control firmware for this release.

Sensor Firmware (Ultrasonic) Versions: All sensors models are upgraded to utilize blanking with access to new registers 66 and 67.

Affected Sensor Firmware Versions: Upgrade for sensor models are: M3/150 ver 32.25, M3/150is ver 32.25, M3/95 ver 32.11, M3/95is ver 32.11 and M3/50 ver 32.7.

Python Version 1.14 (dia.zip): Massa Python code update includes new settings to add additional blanking distance to the factory default values. Setting names are listed below and found in the new dia.yml supplied. For more information, see product manuals. Typically, the setting that will require changing due to false full tank indication (upward spike in data) is the setting "extended_blanking_distance_1".

```
extended_blanking_distance_1: 0    # units in 0.25" for extending blanking for pings < 10 cycles
extended_blanking_distance_2: 0    # units in 0.25" for extending blanking for pings >= 10 cycles
```

DIA Version 2.1.1.2 (dia.py): No changes from previous release.