



Software Released Note:

I have temporarily released the instrument software (Version V23G) for the S1000 series. This software can operate as the following instruments depending on what instrument has been set up. Otherwise, it will operate as Moisture Meter Instrument as a default.

1. Moisture Meter
2. Alcohol with pump
3. Alcohol without pump
4. Milk with pump
5. Milk without pump

Also, the manual calibration and Auto-calibration function have been revisited and fixed bugs.

Setup the instrument:

The software needs to read "INSTR_ID = CODE" from the wga.ini file to detect what instrument has been selected to operate and the number of constituents need to be calculated.

CODE	Instrument	Display (Start up)	# Constituents Calculate
0	Moisture Meter	Moisture	1
1	Alcohol without Pump	Alcohol	1
2	Alcohol with Pump	Alcohol(P)	1
3	Milk without Pump	Milk	2
4	Milk with Pump	Milk(P)	2

WGA.INI File Setup:

1. Open wga.ini template and add the following line to the file:

"INSTR_ID = CODE".

2. When the pump is used for the Alcohol and Milk analysers, the Reference Scan, ie, H1...H38, must be saved in the file. To collect the Reference Scan, use wga-test.exe to collect and save the 100% Reference Scan. Open a previous 100% Reference Scan on Microsoft Excel and paste the values into the column. Copy and paste the two columns into the wga.ini file and save. For example.

WGA.ini File

```
SERIAL_NUMBER = 0019
MOISTURE_CORRECTION_PROTEIN = NO
    in          seconds
BAUD_RATE      =      38400
HIGHEST_POINT_HUNDRED = 20
MINIMUM_HUND_VALUE = 1650
MAXIMUM_HUND_VALUE = 1700
HUND_INT_TIME_SEQ = 78
HUND_INT_TIME_HAD = 78
SCAN_INT_TIME_SEQ = 78
SCAN_INT_TIME_HAD = 78
HUND_SETUP_WORD = 899
```

SCAN_SETUP_WORD = 899
SENS_TEMPERATURE_K1 = 0.075
SENS_TEMPERATURE_K2 = -18.5
SAMP_TEMPERATURE_K1 = 0.075
SAMP_TEMPERATURE_K2 = -17.7
SAMP_TEMPERATURE_K3 = 1.6
INT_TEMPERATURE_K1 = .25
INT_TEMPERATURE_K2 = -130
INSTR_ID = 2

H1 = 0
H2 = 0
H3 = 0
H4 = 0
H5 = 0
H6 = 0
H7 = 0
H8 = 0
H9 = 0
H10 = 0
H11 = 0
H12 = 0
H13 = 0
H14 = 0
H15 = 787.962585
H16 = 850.971985
H17 = 904.412048
H18 = 950.019348
H19 = 989.955872
H20 = 1025.157349
H21 = 1051.129517
H22 = 1077.966431
H23 = 1095.921509
H24 = 1112.140015
H25 = 1121.759155
H26 = 1127.217163
H27 = 1123.90686
H28 = 1109.460571
H29 = 1088.109985
H30 = 1054.5177
H31 = 0
H32 = 0