

FG MT-512RiL Digital Thermostat Configuration Instructions

Initially, there are protected items that must be configured in the thermostat by unlocking the unit. Those items are units (C or F), defrost timer, and differential. Once those are configured the setpoint may be changed at any time without using the unlock code.

For the protected items, do step 1 to 5 and then finish by setting the setpoint in step 6. For changing the setpoint in the future, just go directly to step 6.

- 1. Use Unlock 231 to set units:** Press and hold UP and DOWN buttons at the same time for about 5 seconds and **Fun** is displayed. Release both buttons and **F01** will appear. Briefly press Set and **000** will appear. To configure units, press UP arrow until **231** is displayed. Briefly press SET and **F01** will appear again. The unit is now unlocked with **Unlock 231**. Proceed to step 2 to configure the units.
- 2. Configure units as C or F:** After using **Unlock 231**, with **F01** displayed, press UP arrow and **Uni** will be displayed. Briefly press SET and either C or F will be displayed. Use the arrow buttons to move to C or F as desired. Then briefly press SET button and **F01** will be displayed. Go to step 3
- 3. Use Unlock 123 to set Differential and Defrost timer:** With **F01** displayed, briefly press SET and **000** will appear. Press UP or DOWN until **123** is displayed. Briefly press SET and **F01** will appear. Unit is now unlocked. Proceed to step 4.
- 4. Configure the differential:** After using **Unlock 123**, with **F01** displayed, press UP until **F05** is displayed. Briefly press SET and the current differential will be displayed. Use UP or DOWN arrows to display the desired differential. Briefly press SET and **F05** will be displayed. Go to step 5.
- 5. Configure the defrost timer:** After step 4, with **F05** displayed, press UP until **F08** is displayed. Briefly press SET and the current defrost timer will be displayed. Use UP or DOWN to display **000**. Briefly press SET and **F08** will be displayed. Then to save all the changes press and hold SET for about 5 seconds until **---** is displayed.
- 6. Configure the setpoint** (the temperature to shutoff the compressor). Press and hold SET for about 2 seconds until **SEt** is displayed. Release SET and the setpoint temperature will be displayed. Use the arrow buttons to select the desired setpoint temperature. Briefly press SET and **---** is displayed to confirm the setpoint is saved.

This completes the configuration of the MT-512RiL digital thermostat.

Full Gauge MT512 RiL

Table of recommended values for all function registers

Here are the recommended values:

F02 :	00	Indication offset
F03:	-05	Minimum Setpoint
F04:	35	Maximum Setpoint
F05:	15	Differential
F06:	20	Delay in seconds for restarting (20 is default)
F07:	240	Max cooling time in minutes (240 is default)
F08:	0	Defrost Time in minutes (default is 30)
F09:	0	Initial State (0 = cooling)
F10:	0	Temperature lock during defrost (0 - No Lock is default)
F11:	0	Delay at startup of temperature controller in minutes (0 is default)
F12:	0	Additional time at end of first cycle in minutes (0 is default)
F13:	0	Action when sensor is out of spec (0 = Compressor Off and is the default)
F14:	0	Intensity of digital filter, no units (default = 0)
F15:	14	Time to Key Blocker, 14 is no blocker (default = 14)
F16:	0	Control Function Blocker (0 is No Blocker, default is 0)