



ML Series Recommended Settings

ML-01 and ML-11 F-Menu Parameters for Updated ML Sensors

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Recently, TE completed two design modifications to the ML sensor (098-10001 and 098-10060). The design modifications were aimed at addressing a material obsolescence issue in addition to improving the sensors robustness to certain chemical vapors that were found present in some applications. To maximize performance of these updated ML sensors, the following F-menu parameter settings are recommended when using either the ML-01 or ML-11 interface electronics:

F-Menu Parameter	Range	Recommended Value
Repetition Rate	1 – 50 ms	10
Processing Mode	M = Median, A = Avg	M
Samples	5 – 500	250
Temperature compensation Enabled	Y = Yes, N = No	N
Sensor Frequency in MHz	0.2 to 2.250 MHz	0.700
Transmit Width Usec	0.3 – 100.0	5.0
AGC Width Usec	1 – 350	10
Window Open in Inches	0.10 – 10.00	0.50
Window Close in Inches	1.00 – 99.99	10.00

All of these parameters can be changed to suit a particular application. The three parameters most critical for getting the full performance range from the sensor are: Sensor Frequency = 0.700 MHz, Transmit Width = 5.0 usec, and AGC Width = 10 usec.

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