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SprintIR 20Hz CO2 Sensor Testing

The new SprintIR carbon dioxide sensors provide streaming co2 measurements at 20Hz - 10 times the speed of a normal 2Hz NDIR CO2 sensor. To evaluate what this means in practical terms, we set up a test using our new high speed software tool kit (still in beta). Note that these are NOT laboratory grade measurements, just a quick demonstration to give you an idea of the difference.

The test was made with a 10,000PPM calibration gas flowed through a T-connector into the chamber of each unit. On all the plots, the cyan and yellow traces are the raw and filtered SprintIR outputs respectively. The green and pink traces are the raw and filtered outputs respectfully from the regular units.

The time scale is 36 seconds across with division corresponding to 1 second.

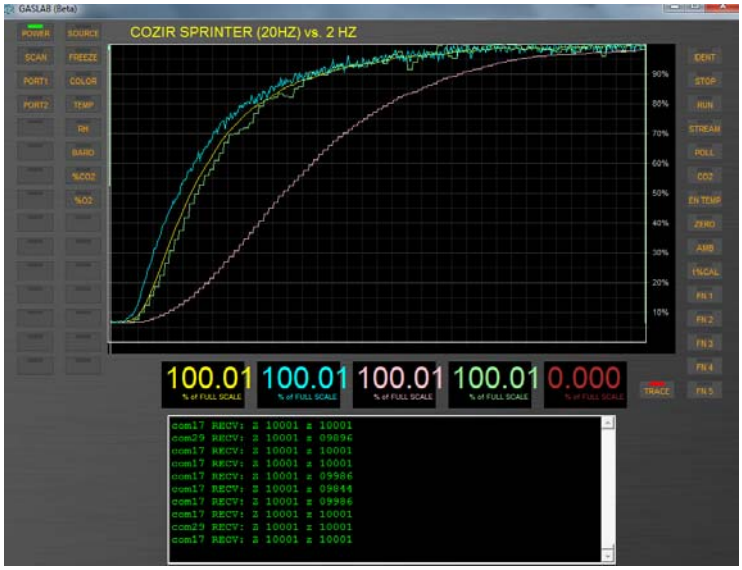

Figure 1 shows the response when calibration gas is flowed into the unit. Note the cyan SprintIR graph rising at 1 second.

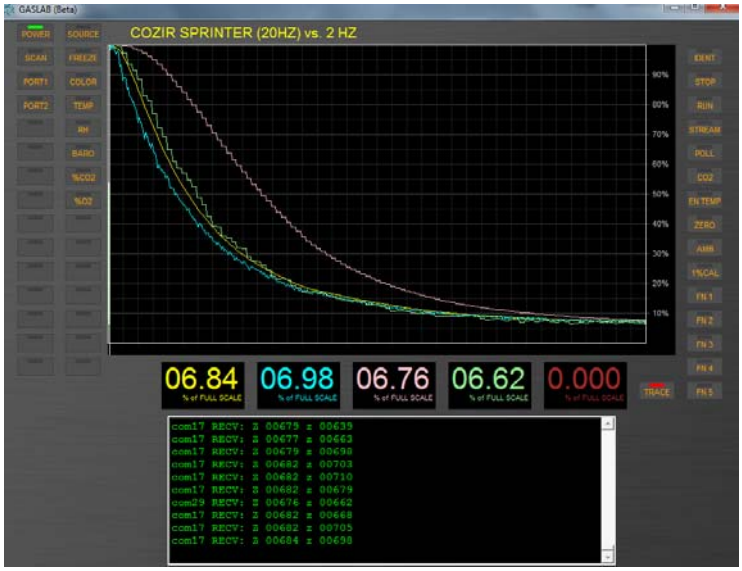

Figure 2 shows the response when ambient air is flowed into the unit. Note the cyan SprintIR instantaneous fall-off.