



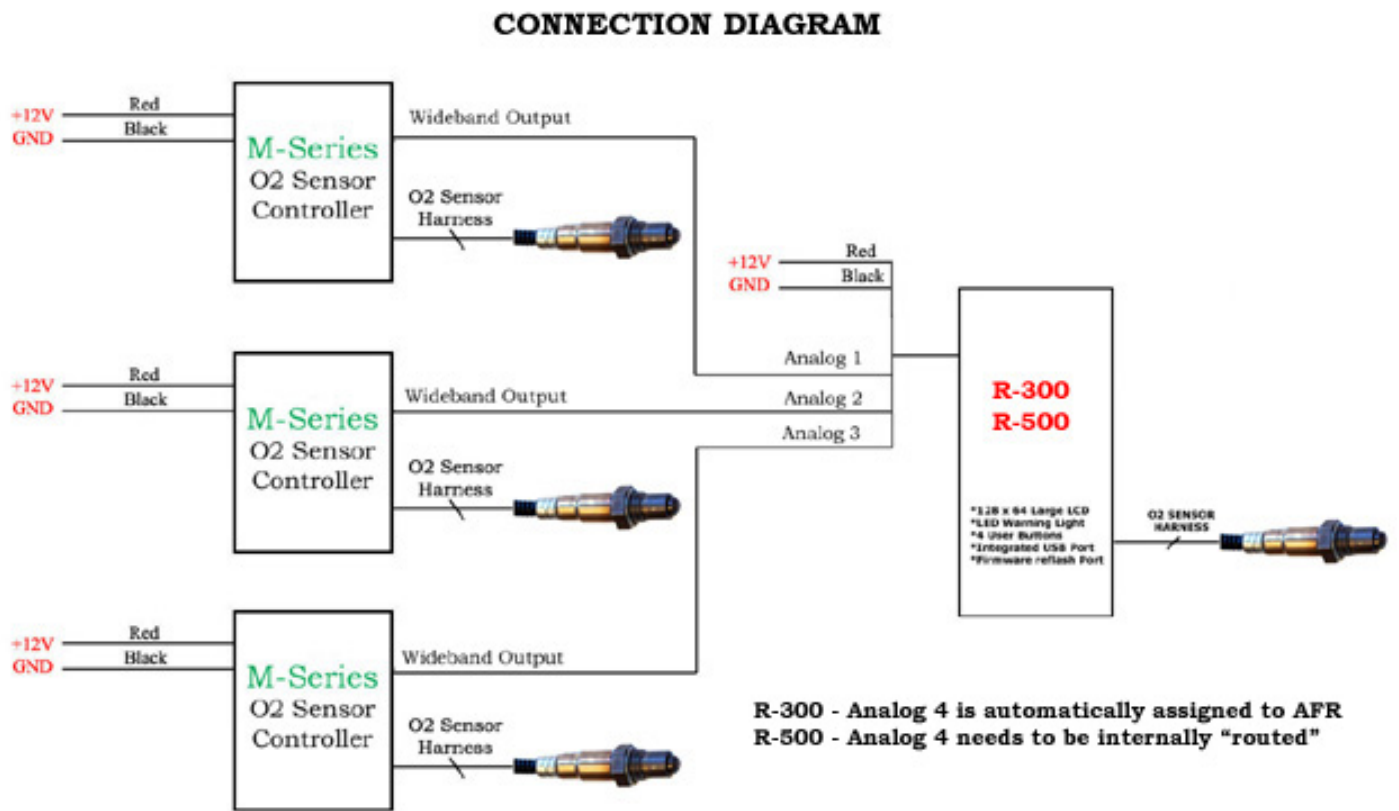
Monitoring and Data Logging Multiple Widebands

PLXApp014 (V1.0) October 14, 2005

Summary

The R-300 and R-500 wideband computers are capable of monitoring up to 4 simultaneous wideband inputs. This is ideal for applications which require individual tuning of each cylinder or applications for monitoring the right and left banks of "V" engines. This application note describes the procedures for setting up the R-300/R-500 and PLX Logger for showing AFR/Lambda.

Connection Diagram



Setting up the R-Series

	Lambda	AFR (Gasoline)	AFR(Diesel)	AFR(Methanol)	AFR(Ethanol)	AFR(LPG)	AFR(CNG)
0.0 V	0.68	10	9.9	4.35	6.12	10.54	11.70
5.0 V	1.36	20	19.9	8.70	12.24	21.08	23.39

PLXAPP014 (V1.0) October 14, 2005

www.plxdevices.com

(408)745-7591



Setting up the PLX Logger

Simply select the corresponding fuel from the Setup Analog Inputs window from PLX Logger. For inputs which are connected to the M-Series controller, be sure to correct for the offset voltage, if needed, to compensate for slight differences in reference ground.

Setup Analog Inputs

Analog #1
Preset: PLX WB Gasoline
Volts/Unit:

Volts	Units
0.00	10.00
0.50	11.00
1.00	12.00
1.50	13.00
2.00	14.00
2.50	15.00
3.00	16.00
3.50	17.00
4.00	18.00
4.50	19.00
5.00	20.00

Offset Voltage: -0.04

Analog #2
Preset: PLX WB Gasoline
Volts/Unit:

Volts	Units
0.00	10.00
0.50	11.00
1.00	12.00
1.50	13.00
2.00	14.00
2.50	15.00
3.00	16.00
3.50	17.00
4.00	18.00
4.50	19.00
5.00	20.00

Offset Voltage: -0.04

Analog #3
Preset: PLX WB Gasoline
Volts/Unit:

Volts	Units
0.00	10.00
0.50	11.00
1.00	12.00
1.50	13.00
2.00	14.00
2.50	15.00
3.00	16.00
3.50	17.00
4.00	18.00
4.50	19.00
5.00	20.00

Offset Voltage: -0.04

Analog #4
Preset: PLX WB Gasoline
Voltage
Percentage
PLX WB Lambda
 PLX WB Gasoline
PLX WB Diesel
PLX WB Methanol
PLX WB Ethanol
PLX WB LPG
PLX WB CNG
PLX G Sensor
PLX EGT Celsius
PLX EGT Fahrenheit
Custom

4.50	19.00
5.00	20.00

Offset Voltage: 0.00

OK Cancel

Revision History

Version 1.0 (10/14/05)	Initial release
------------------------	-----------------