AFR Sensors Ranked by Average Response Time (Fastest to Slowest)

Manufacturer	Model	Description	Sensor	Avg. High Response Time (ms)	Avg. Low Response Time (ms)	Avg. Response Time (ms)
AEM	X-Series (30-0300)	AFR Gauge	Bosch LSU 4.9	20.3175	19.1900	19.7537
AEM	X-Series (30-0310)	AFR Controller	Bosch LSU 4.9	21.9713	18.5662	20.2687
Motec	PLM	AFR Gauge	Bosch LSU 4.9	32.1300	35.2888	33.7094
PLX Devices	SM-AFR	AFR Gauge	Bosch LSU 4.9	35.2237	37.3175	36.2706
Innovate Motorsports	LC-1 (3769)	AFR Controller	Bosch LSU 4.2	34.3175	39.8825	37.1000
Zeitronix	Zt-3	AFR Gauge	Bosch LSU 4.2	39.7563	46.9775	43.3669
Dynojet	15-7003	AFR Controller	Bosch LSU 4.2	42.2888	45.8513	44.0700
AutoMeter	6178	AFR Gauge	Bosch LSU 4.2	59.5413	41.7562	50.6487
FAST	170579	AFR Controller	Bosch LSU 4.2	56.0100	66.4788	61.2444
Daytona Sensors	111002	AFR Controller	Bosch LSU 4.2	66.4475	80.6713	73.5594
Haltech	HT059976	AFR Controller	Bosch LSU 4.2	70.8860	78.5450	74.7156
GlowShift	GS-C702W-DL	AFR Gauge	Bosch LSU 4.9	91.1713	68.3563	79.7638
Innovate Motorsports	LC-2 (3877)	AFR Controller	Bosch LSU 4.9	77.4187	92.7650	85.0919
Innovate Motorsports	MTX-L (3844)	AFR Gauge	Bosch LSU 4.9	78.5112	98.7337	88.6225
FAST	170401	AFR Gauge	Bosch LSU 4.2	85.8575	95.5775	90.7175
NGK	Powerdex AFM (91101)	AFR Gauge	NTK LZA08-H6	103.9838	130.1138	117.0488
Grams	C2-99-0055	AFR Gauge	Bosch LSU 4.9	112.3613	123.3000	117.8306
ProSport Performance	PSAFRLCDWB4.9-AMB-WO	AFR Gauge	Bosch LSU 4.9	106.7363	152.3388	129.5375

* Response time was defined by the high and low gas t63 transition time, the highest and lowest transition times for each sensor was discarded and the remaining eight were averaged, resulting in average high and average low response time. The average high and low response times were then

Test Gases:

1. Bar 97 Tri High Blend #34, Specialty Air Technologies, Inc., Long Beach, CA

2. Bar 97 Tri Low Blend #31, Specialty Air Technologies, Inc., Long Beach, CA

Independently Tested By: 360° Product Testing, 4 Executive Plaza, Yonkers, NY 10701