



AIM Data System Accessories

One of the most valuable features of the AIM data systems is flexibility. You can utilize virtually any sensor you like to help you investigate and learn more about your vehicle and your driver/rider/pilot performance. Though more limited than its big brothers, even the SnoLITE can use alternative temperature and speed sensors to provide you a better peek at the truths hidden within!

Note: The list below is a sampling of sensors which are used on a regular basis. There are many additional possibilities with which we can help you!

Sensors

Temperature—Pressure—Position—Vehicle Dynamics—Speed—Lambda

All sensors are pre-tested and strain-relieved. Let us know in advance about your application, and we can pre-label the sensors for you. This helps during system installation and expedites field service.

Sensor Category	Name	Description/Application	Sizes Available / Notes	Price
Temperature	Standard k-thermocouple	Good all-around sensor for measuring H2O/Oil/Trans fluid temperatures. M5 size is compatible with in-line hose taps (see below). Equipped with CJC plugs.	M5-Straight Thread M10-Straight Thread 1/8NPT	\$ 50
	Standard RTD (PT100)	Good all-around sensor for measuring H2O/Oil/Trans fluid temperatures. M5 size is compatible with in-line hose taps (see below). Equipped with 4-prong AIM plugs.	M5-Straight Thread M10-Straight Thread 1/8NPT	\$ 50
	Needle Type thermocouple	Faster variation of the standard k-thermocouple. Used for inlet air and crankcase temperature sensing, where Ultra-response unit may be damaged.	M5-Straight Thread	\$50
	Ultra-Response k-thermocouple	Instrument grade sensor. Our recommendation for proper EGT or inlet air temperature measurement. Special dual-wall construction provides outstanding response and durability.	1/8NPT Compression Fitting, using weldment (supplied)	\$89



	Infrared (IR) thermocouple	Non-contact temperature measurement (up to 550degF) for belt, case, tires, radiators, etc. 0.725"x18TPI Nylon, 1/4NPT Stainless for 6:1	1:1 Focus (k-type) 3:1 Focus (k-type) 6:1 Focus (0-5v output)	\$195 \$249 \$279
	Fast-Response Spark Plug Seat (k-thermocouple)	Fits under spark plug, to establish thermal runaway, especially for air-cooled engines.	14mm Ring Terminal	\$74
	In-Line Hose Taps	For use w/5mm straight thread sensors, above. Cut your coolant hose, insert tap, and you're done!	5/8" (.675x.750 nipple) Purple 3/4" (.800x.884" nipple) Blue 1" (1.05x1.125 nipple) Red	\$30
Pressure	Remote Barometric Pressure Sensor	Used to detect ram-air effect, plenum, and crankcase pressures. Especially useful for turbos.	0-1 BAR 0-5 BAR	\$130
	High-Pressure Sensors	For fluids and air pressure measurements. Provides nearly instantaneous response to any pressure fluctuations.	1/8" NPT Thread 50, 100, 150, 1000, 2000psi, and (-1 to 2BAR) ranges	\$149
Position	String Potentiometer	Stainless string spool. Very easy installation. Can handle up to 40g retraction rate. Used to monitor steering, throttle, power valve, & suspension travel.	10,15, or 20" travel lengths	\$215
	Linear Potentiometer	The best method for monitoring fork and track travel in high-risk environment.	2,3" travel 4,6" 5,7,8"	\$259 \$269 \$279
	Non-Contact Distance	Measure absolute ride heights, and a variety of air gaps to the ground, water, or snow.	30-210mm and 0.2-1.0m range (inquire about alternate ranges)	\$565
Vehicle Dynamics	Linear Accelerometer	-5g to 5g External Accelerometer for In-Line, Lateral or Vertical G's	Alternate Ranges Available (±4, ±10, ±20g)	\$200
	Gyro	Developed for Superbikes, works for SnoX. Permits visualization of lean or pitch angle. Also used for yaw rate.		\$200
Speed	Magnetic Speed Sensor	High-sensitivity sensor, permits magnetic pickup to be up to 3/4" away. Standard sensor provided with all systems. Includes fastening nuts and magnet.	Cable is Black	\$81
	Inductive Proximity Speed Sensor	To detect speed using moving ferrous material, such as bolt heads. Sensor mounts 2-4mm from rotation reference. Includes fastening nuts.	Cable is White	\$81
	Speed Sensor Collar	Slips over axles and jackshafts, to permit easy installation of speed sensor pickups. Includes one or two magnets per collar.	Please specify your shaft diameter	\$30
	GPSpeed Sensor	Measure your speed using GPS signals. Ideal for boats, sled, and other apps where wheelspeed is unobtainable or unreliable. May be used along with existing speed sensors to calibrate speed, as well.	Utilizes same plug as normal AIM speed sensor.	\$540
	Belt Speed Sensor	Measure belt slippage separately from clutch movement! Takes clutch tuning to another level beyond mere JS/Engine ratio.	For any system with 2 or more speed inputs.	\$175
Lambda Sensor	Motorsport Lambda Sensor	The professional method for examining fuel mixture in real time. Much more accurate and faster than EGT, or any street based sensors. Requires 12VDC power and adapter cabling.		\$315
	Lambda Sensor Installation Kit	Weldment, Power, and Signal wiring to plug-and-play Lambda sensor to your Logger.	M18 Exhaust Weldment/Plug 12VDC Power Wiring Lambda Signal Cable Lookup Table	\$95



Cable Management

Improper installation of cabling is the #1 source of data system problems. Make sure your cables are properly marked and weatherproofed. These items can help you get the most professional installation possible!

Spare Harnesses	Standard MC3 Harness	Standard Mil-spec harness for MC3 Auto & Bike Display	Available with 0 to 3 CJC Temperature Leads	\$275
	Custom Built Harness (for MC3 or MXL)	Custom Sized Mil-Spec Harness. For Master or Slave applications		\$350
Extension Cables	Data Extension Cables	Extension Cabling for any data (black) leads. Custom marked and tested for each user.	User Specified Length (custom marked if desired)	\$50
	k-t/c Extension Cables	Used to extend k-type thermocouple wires using correct CJC connectors.	User Specified Length (custom marked if desired)	\$50
Download Cables	Standard USB Download Cable	Standard USB communication cable with proper fitting for your MC3, MXL, or EVO3	Specify type: 4pin Black (snap) 4pin Silver (screw) 2.5mm Stereo 3.5mm Stereo	\$65

Power Management

All AIM racing systems turn on as soon as you provide 9-15V of power. If you need an external battery or a switch, these pre-tested components are economical additions.

Power Management	1600mAH NiMH External Battery	These units have great cold-weather capacity and far less charging memory than NiCad batteries. Includes adapter plug for attachment to your harness.		\$35
	NiMH Battery Charger	A/C Powered charger, for charging your NiMH battery. Also may be used for NiCad batteries.		\$35
	Remote Power Switch	Weather resistant switch, with weather-proof boot. Pre-wired. Just mount, cut, terminate, and go!		\$23
	SnoLITE/KartGold Power Adapter Plug	Permits external powering of unit, instead of using internal AAA batteries.	SnoLITE/BoatLITE/MC3Kart Gold only	\$ 40

NOTE: Black Diamond sensors and accessories have been selected, pre-tested, sorted, and calibrated for your application. You can be sure that these items will work right out of the box. Accept no substitutes!

