Lambda

Lambda To CAN (LTC)

MoTeC's LTC (Lambda to CAN) modules monitor, control and diagnose Bosch LSU 4.9 Lambda sensors, transmitting readings on a CAN bus. When multiple LTCs are used, up to 32 Lambda sensors can be configured on a single CAN bus, allowing an ECU or logging device to simultaneously monitor numerous Lambda sensors.

NOTE: MoTeC's LTC is also available in a dual version, LTCD

Sensors compatibility
Bosch LSU 4.9, 5 wire sensor

Inputs/Outputs
1 x Bosch LSU 4.9 Lambda sensor
Power supply voltage 11 V – 16 V
Power supply current 110 mA typical plus the sensor heater current (heater current is typically 0.5 A – 1 A and up to 2 A on startup)

Communications
1 x CAN at 1 Mbit/sec

Connectors
1 x 4 pin male DTM connector (power/CAN)
1 x mating connector for Bosch LSU 4.9 sensor

Physical
Dimensions 38 x 26 x 14 mm excluding wiring looms and connectors
Weight 62 grams
Maximum ambient temperature 100 °C

General
Provides accurate Lambda measurement even when exhaust gas temperature is changing rapidly (heating or cooling)
Calibrated by the user for a particular sensor using either the initial sensor factory calibration or a free air calibration
Install as a single unit or in multiples
Pre-configured to suit a single LTC unit installation
Cost effective

Measurement/Configuration
Compatible fuel:
gasoline/petrol
alcohol
LPG
diesel
user defined 'blend' fuel
Comprehensive diagnostic and status channels
Calibration methods:
automatic, using the sensor's built-in calibration resistor
known oxygen environment
Standard configuration tables
Configurable to compensate for sensor aging and contamination
Accuracy +/– 1.5%

Operating range:
Lambda 0.65 to 10
AFR 9.5 to 147 for gasoline/petrol

Web	Item Number	Description
	M LTC	LAMBDA TO CAN

Lambda To CAN Dual (LTCD)

MoTeC's LTCD (Lambda to CAN Dual) modules monitor, control and diagnose Bosch LSU 4.9 Lambda sensors, transmitting readings on a CAN bus. When multiple LTCDs are used, up to 32 Lambda sensors can be configured on a single CAN bus, allowing an ECU or logging device to simultaneously monitor numerous Lambda sensors.

NOTE: MoTeC's LTCD is also available in a singular version, LTC

Sensors compatibility
Bosch LSU 4.9, 5 wire sensor

Inputs/Outputs
1 x Bosch LSU 4.9 Lambda sensor
Power supply voltage 11 V – 16 V
Power supply current 110 mA typical plus the sensor heater current (heater current is typically 0.5 A – 1 A and up to 2 A on startup)

Communications
1 x CAN at 1 Mbit/sec

Connectors
1 x 4 pin male DTM connector (power/CAN)
2 x mating connector for Bosch LSU 4.9 sensor

Physical
Dimensions 38 x 26 x 23.5 mm excluding wiring looms and connectors
Weight 100 grams
Maximum ambient temperature 100 °C

General
Provides accurate Lambda measurement even when exhaust gas temperature is changing rapidly (heating or cooling)
Calibrated by the user for a particular sensor using either the initial sensor factory calibration or a free air calibration
Install as a single unit or in multiples
Pre-configured to suit a single LTCD unit installation
Cost effective

Measurement/Configuration
Compatible fuel:
gasoline/petrol
alcohol
LPG
diesel
user defined 'blend' fuel
Comprehensive diagnostic and status channels
Calibration methods:
automatic, using the sensor's built-in calibration resistor
known oxygen environment
Standard configuration tables
Configurable to compensate for sensor aging and contamination
Accuracy +/– 1.5%

Operating range:
Lambda 0.65 to 10
AFR 9.5 to 147 for gasoline/petrol

Web	Item Number	Description
	M LTCD	LAMBDA TO CAN DUAL

Lambda To CAN (LTC NTK)

MoTeC's LTC NTK (Lambda to CAN) modules monitor, control and diagnose NTK Lambda sensors, transmitting readings on a CAN bus. When multiple LTC NTKs are used, up to 32 Lambda sensors can be configured on a single CAN bus, allowing an ECU or logging device to simultaneously monitor numerous Lambda sensors.

NOTE: MoTeC's LTC NTK is also available in a dual version, LTCD NTK

Sensors compatibility
NTK, 5 wire sensor

Inputs/Outputs
1 x NTK Lambda sensor (MoTeC #57007)
Power supply voltage 11 V – 16 V
Power supply current 110 mA typical plus the sensor heater current (heater current is typically 0.5 A – 1 A and up to 2 A on startup)

Communications
1 x CAN at 1 Mbit/sec

Connectors
1 x 4 pin male DTM connector (power/CAN)
1 x mating connector for NTK Lambda sensor

Physical
Dimensions 38 x 26 x 14 mm excluding wiring looms and connectors
Weight 62 grams
Maximum ambient temperature 100 °C

General
Provides accurate Lambda measurement even when exhaust gas temperature is changing rapidly (heating or cooling)
Calibrated by the user for a particular sensor using either the initial sensor factory calibration or a free air calibration
Install as a single unit or in multiples
Pre-configured to suit a single LTC NTK unit installation
Cost effective

Measurement/Configuration
Compatible fuel:
gasoline/petrol
alcohol
LPG
diesel
user defined 'blend' fuel
Comprehensive diagnostic and status channels
Calibration methods:
automatic, using the sensor's built-in calibration resistor
known oxygen environment
Standard configuration tables
Configurable to compensate for sensor aging and contamination
Accuracy +/– 1.5%

Operating range:
Lambda 0.65 to 10
AFR 9.5 to 147 for gasoline/petrol

Web	Item Number	Description
	M LTC NTK	LAMBDA TO CAN NTK

Lambda To CAN Dual (LTCD NTK)

MoTeC's LTC NTK (Lambda to CAN) modules monitor, control and diagnose NTK Lambda sensors, transmitting readings on a CAN bus. When multiple LTC NTKs are used, up to 32 Lambda sensors can be configured on a single CAN bus, allowing an ECU or logging device to simultaneously monitor numerous Lambda sensors.

NOTE: MoTeC's LTC NTK is also available in a dual version, LTCD NTK

Sensors compatibility
NTK, 5 wire sensor

Inputs/Outputs
2 x NTK Lambda sensors (MoTeC #57007)
Power supply voltage 11 V – 16 V
Power supply current 110 mA typical plus the sensor heater current (heater current is typically 0.5 A – 1 A and up to 2 A on startup)

Communications
1 x CAN at 1 Mbit/sec

Connectors
1 x 4 pin male DTM connector (power/CAN)
2 x mating connectors for NTK Lambda sensors

Physical
Dimensions 38 x 26 x 23.5 mm excluding wiring looms and connectors
Weight 100 grams
Maximum ambient temperature 100 °C

General
Provides accurate Lambda measurement even when exhaust gas temperature is changing rapidly (heating or cooling)
Calibrated by the user for a particular sensor using either the initial sensor factory calibration or a free air calibration
Install as a single unit or in multiples
Pre-configured to suit a single LTCD NTK unit installation
Cost effective

Measurement/Configuration
Compatible fuel:
gasoline/petrol
alcohol
LPG
diesel
user defined 'blend' fuel
Comprehensive diagnostic and status channels
Calibration methods:
automatic, using the sensor's built-in calibration resistor
known oxygen environment
Standard configuration tables
Configurable to compensate for sensor aging and contamination
Accuracy +/– 1.5%

Operating range:
Lambda 0.65 to 10
AFR 9.5 to 147 for gasoline/petrol

Web	Item Number	Description
	M LTCD NTK	LAMBDA TO CAN DUAL NTK

Professional Lambda Meter (PLM)

The MoTeC Professional Lambda Meter (PLM) determines exhaust gas mixture strength over a wide range of conditions with a fast response time. Quick and easy to use, it allows a calibration engineer all the power and configurability required for OE emissions development and certification work.

The MoTeC PLM provides a differential analog-voltage output that connects to an analog meter or measurement instrument such as data logger or chart recorder. Define output as linear or non-linear in relation to the measured units. The PLM also supports 1mbit CAN and RS232 data links to devices such as the MoTeC dash/logger for transmission of sensor and diagnostic data. Comprehensive diagnostic, status channels are provided for.

The PLM can be used as Lambda input for an ECU!. Instead of purchasing the Lambda Upgrade on M4/M48 - the PLM's definable output voltage can be used as the input for Lambda on these ECU's. This gives you the use of a more state of the art sensor with a digital display which you can place on your dashboard for viewing even if the ECU is offline. Of course you can then use this lambda meter on any other car you wish.

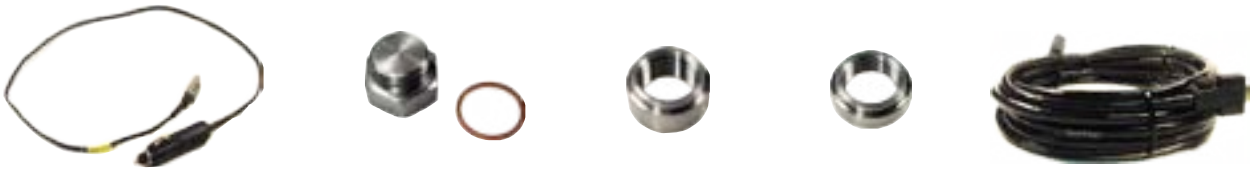
Specifications:

- Weighs135 gms
- Robust aluminum enclosure
- Operating range 0.70 and 32.0 lambda (for gasoline/petrol this equals air/fuel ratio range of 10.3:1 to 470:1)
- Display lambda, air/fuel ratio, or oxygen percentage for any sensor-compatible fuel
- Define display resolution (in decimal points), update rate, filtering, backlight intensity
- Easy Air calibration using PLM Software (no twisting of screws or watching LED's required)

	M PLM	**PROFESSIONAL LAMBDA METER**

Kits come with Sensor, Harness, Software, O2 Bung, Comm Cable and Users Manual

Professional Lambda Meter Accessories



Web	*Item Number*	*Description*
	M PLM CIG	**CIGARETTE LIGHTER ADAPTER**
	TR-18 PLUG	**18MM X 1.5MM THREADED SATAINLESS BUNG W/COPPER WASHER**
	TR-18-13	**18MM SS RING FOR LSU SENSOR**
	TR-18 SS	**OXY SENSOR RING 304L STAINLESS**
	M PLM EXT	**20' PLM EXTENSION CABLE**