



NO_xCAN_t



The ECM NO_xCAN_t distributed by CSM is a versatile and highly precise NO_x, Lambda, and O₂ measurement module. Due to its wide operating temperature range it can be mounted directly in the engine compartment and close to the point of measurement. The ECM sensor used in combination with the measurement module is factory-calibrated and is equipped with an integrated memory chip where the calibration data is stored. This allows a simple replacement of sensors and measurement devices and ensures consistent measurement results at all times. Thus, the NO_xCAN_t is also well-suited to be used in test benches.

Key features

- ▶ NO_x measurement range: 0 to 5000 ppm
- ▶ Lambda measurement range: 0.4 to 25
- ▶ O₂ measurement range: 0 to 25 %
- ▶ Fuel types: programmable H:C, O:C and N:C ratios and H₂
- ▶ Field calibration to minimize sensor aging effects
- ▶ Connection port for pressure compensation (optional)
- ▶ Connection port for DashCANc to display freely selectable measurement values (optional)
- ▶ Operating temperature: -40 °C to +125 °C / IP67
- ▶ Universally applicable, extremely compact CAN bus measurement module, fully compatible with CSM products
- ▶ Configuration via CSM xx-Scan ConfigTool and INCA AddOn

Shipping content

- ▶ Measurement module NO_xCAN_t

Maintenance

- ▶ Calibration every 24 months recommended

Part number


- ▶ ART5220100 NO_xCAN_t

Accessories

- ▶ ART5210500 ECM Sensor for NO_xCAN_t
- ▶ For further accessories (e.g. cables, pressure compensation, etc.) see datasheet "Lambda CANc exhaust measurement technology accessories"

Innovative Measurement and Data Technology

Technical data

	NO_xCAN_t (Type T)
Inputs	1x ceramic NO _x sensor
Measurement ranges	
NO _x	0 to 5000 ppm
Lambda	0.40 to 25
AFR	6.0 to 364
%O ₂	0 to 25
Accuracy	
NO _x	±5 ppm (0 to 200 ppm) ±20 ppm (200 to 1000 ppm) ±2 % (elsewhere)
Lambda	±0.008 (at 1 λ) ±0.016 (at 0.8 to 1.2 λ) ±0.018 (elsewhere)
AFR	±0.15 (at 14.6 AFR) ±0.40 (at 12 to 18 AFR) ±1.0 (elsewhere)
%O ₂	±0,4 (0 to 2 %O ₂) ±0.8 (elsewhere)
Response time	< 150 ms for Lambda, AFR, Φ and O ₂ < 1 s for NO _x
Fuel type	programmable H:C, O:C, N:C ratios and H ₂
CAN interface	CAN2.0B, High Speed (ISO 11898)
Configuration	via CAN bus using CSM ConfigTool or CSM INCA AddOn, settings and configurations stored in the device alternatively: configuration and data transfer via CANopen protocol
Power Supply	
Minimum	11 V DC
Maximum	28 V DC
Housing	
Protection class	IP67
Dimensions (w x h x d)	approx. 145 x 120 x 40 mm
Operating conditions	
Operating temperature	-40 °C to +125 °C
Conformity	

ECM ENGINE CONTROL
AND MONITORING

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