

Pressure sensor 250 kPa

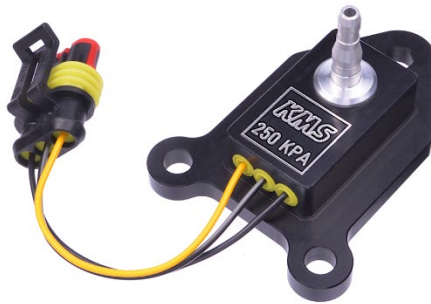


Manual for installation, setup and calibration
Handleiding voor installatie, instelling en kalibratie
Anleitung für Installation, Setup und Kalibrierung

Pressure sensor 250 kPa

Part nr: 01-01-07-2512

EN



Technical specifications and
calibration values

This document contains detailed information about the technical specifications and calibration values for the KMS pressure sensor 250 kPa. Additional information, user manuals, wiring examples and software can be found on our website:
kms.vankronenburg.nl

Package contents

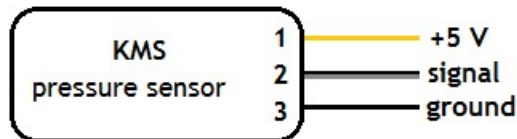
- KMS pressure sensor 250 kPa module
- 3P contra connector superseal
- KMS pressure sensor 250 kPa user manual

Specifications

- EMC protection up to 100V
- Temperature-compensated
- Ratio metric output
- Sensor cell resistive to fuels (incl. Diesel) and oils such as engine lube oil

Wiring

- Yellow: +5V supply from ECU
- Grey/black: signal (0-5V), connect to ECU
- Black: sensor ground, connect to sensor ground of ECU



KMS pressure sensor 250 kPa

Calibration values

- At 3.75 volt: 197 kPa
- At 1.25 volt: 72 kPa

When using a KMS ECU, these values must be set in the KMS ECU software. See figure below for an example:

A screenshot of a software interface for 'Boost value calibration'. The title 'Boost value calibration' is in blue. Below it, two rows of text are shown: 'Pressure at MAP output 3,75V:' followed by a text box containing '197' and a 'kpa' unit label, and 'Pressure at MAP output 1,25V:' followed by a text box containing '72' and a 'kpa' unit label. Each text box has small up and down arrow icons on its right side.

Boost value calibration
Pressure at MAP output 3,75V: 197 kpa
Pressure at MAP output 1,25V: 72 kpa


Engine-load 2' values for software setup

- Min. value: 15
- Max. value: 250

When using a KMS ECU, these values must be set in the KMS ECU software. For use on lower pressure scale, see pressure table on next page. See figure below for an example:

Engine-load 2

MAP MAF

Response type: 

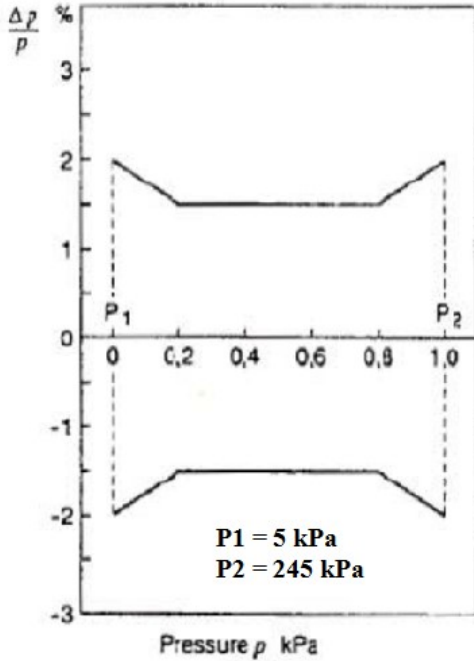
Max. value Engine load 2:

Min. value Engine load 2:

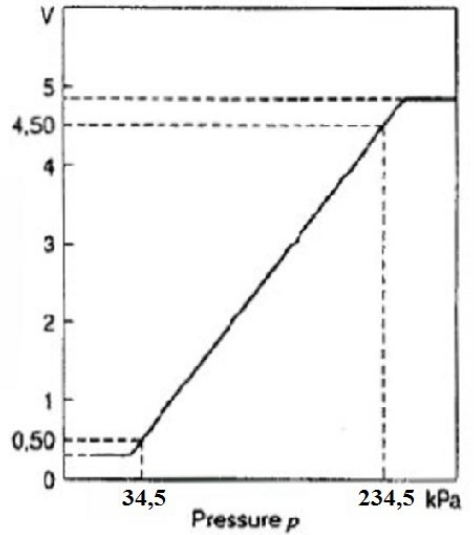
		<i>Min.</i>	<i>Typical</i>	<i>Max.</i>
Technical data				
Supply voltage Uv	Volt	4.74	5.1	5.46
Current input Iv at Uv = 5 V	mA	-	6	10
Minimum pressure offset (0 to 85 °C)	Volt	0.241	0.306	0.371
Accuracy (at 25 °C)	Volt	-	0.0701	-
Upper Limit at Uv = 5 V	Volt	4.476	4.606	4.736
Response time 10/90	ms	-	1	-
Warm up time	ms	- -40	20	-
Operating temperature	Deg. C		0 to 85	125

Pressure (kPa)	Min. Value	Max. Value
0-250	15	250
0-200	15	200
0-150	15	150
0-100	15	100

Characteristic-curve tolerance

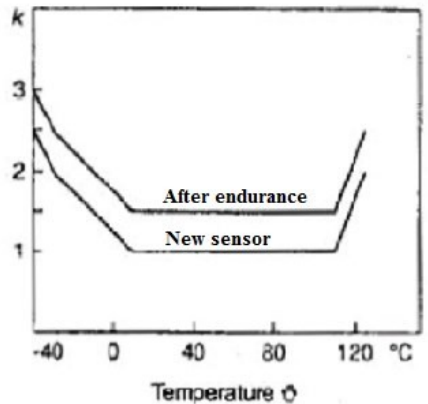


Characteristic curve ($U_v = 5.0v$)



Alternative pressure scales

Tolerance extension factor



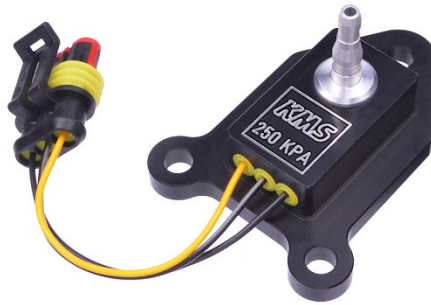
KMS pressure sensor 250 kPa

-01-07-2512

Druksensor 250 kPa

Onderdeel nr: 01-01-07-2512

NL



Technische specificaties en
kalibratie waarden

Dit document bevat gedetailleerde informatie over de KMS druksensor 250 kPa. Overige informatie, handleidingen, kabelboomschema's en software kan worden gevonden op onze website: kms.vankronenburg.nl

Inhoud van de kit

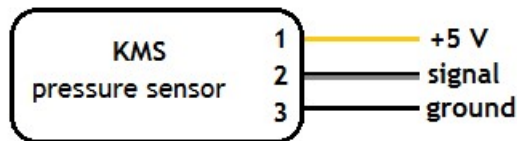
- KMS druksensor 250 kPa
- 3 polige contra stekker superseal
- KMS druksensor 250 kPa handleiding

Specificaties

- EMC bescherming tot 100V
- Temperatuur gecompenseerd
- Metrische uitgang
- Sensor bestand tegen brandstoffen (incl. diesel) en smeerstoffen zoals motorolie

Bekabeling

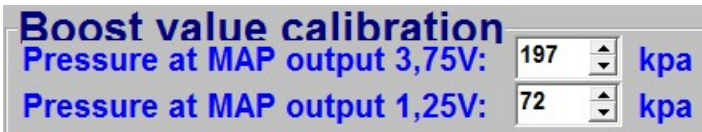
- Geel: +5V voeding van ECU
- Grijs/zwart: signaal (0-5V), aansluiten op ECU
- Zwart: sensor massa, aansluiten op sensor massa van ECU



Calibratiewaarden

- Bij 3.75 volt: 197 kPa
- Bij 1.25 volt: 72 kPa

Wanneer er een KMS ECU wordt gebruikt, moeten deze waarden in de KMS ECU software worden ingesteld. Zie onderstaande afbeelding ter illustratie:

A screenshot of a software interface for 'Boost value calibration'. It shows two rows of settings. The first row is 'Pressure at MAP output 3,75V:' with a value of '197' in a text box and 'kpa' as the unit. The second row is 'Pressure at MAP output 1,25V:' with a value of '72' in a text box and 'kpa' as the unit. Each text box has a small up/down arrow icon to its right.

Boost value calibration	
Pressure at MAP output 3,75V:	197 kpa
Pressure at MAP output 1,25V:	72 kpa


‘Engine-load 2’ waarden voor software setup

- Min. waarde: 15
- Max. waarde: 250

Wanneer er een KMS ECU wordt gebruikt, moeten deze waarden in de KMS ECU software worden ingesteld. Voor gebruik op lagere drukschaal, zie volgende pagina. Zie onderstaande afbeelding ter illustratie:

Engine-load 2

MAP MAF

Response type: 

Max. value Engine load 2:

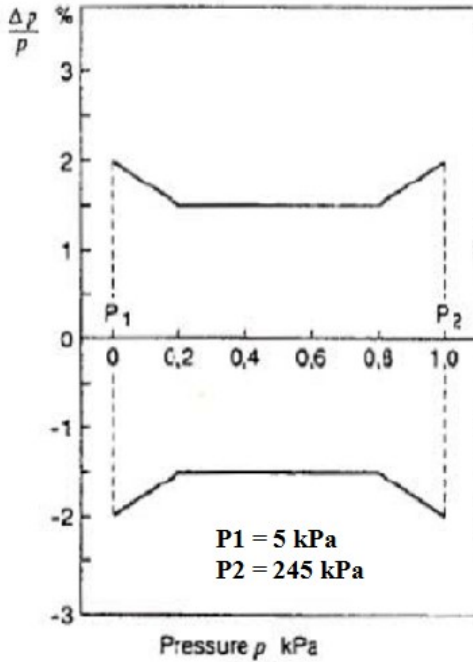
Min. value Engine load 2:

Technical data		<i>Min. Typical</i>		<i>Max.</i>
Supply voltage Uv	Volt	4.74	5.1	5.46
Current input Iv at Uv = 5 V	mA	-	6	10
Minimum pressure offset (0 to 85°C)	Volt	0.241	0.306	0.371
Accuracy (at 25°C)	Volt	-	0.0701	-
Upper Limit at Uv = 5 V	Volt	4.476	4.606	4.736
Response time 10/90	ms	-	1	-
Warm up time	ms	- -40	20	-
Operating temperature	Deg. C		0 to 85	125

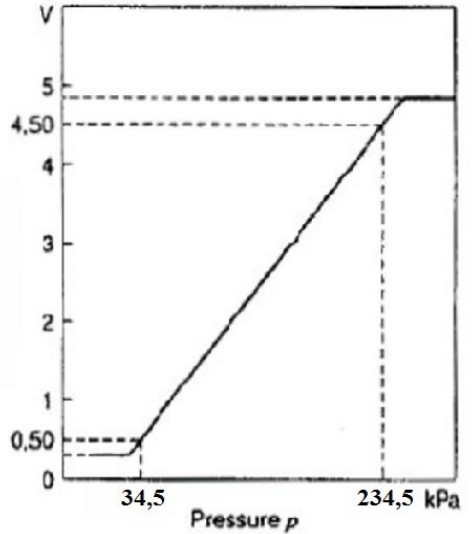
Pressure (kPa)	Min. Value	Max. Value
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0-250	15	250
0-200	15	200
0-150	15	150
0-100	15	100

Characteristic-curve tolerance

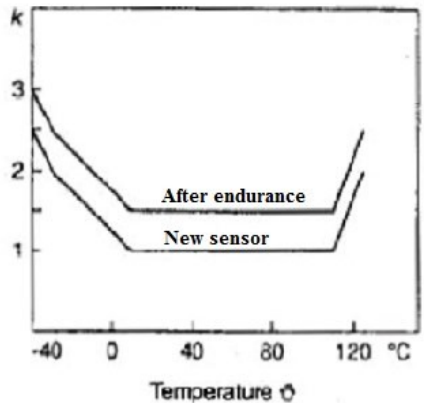


Characteristic curve ($U_V = 5.0V$)



Alternatieve drukschalen

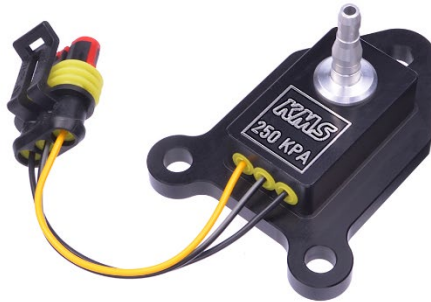
Tolerance extension factor



Drucksensor 250 kPa

Teilenummer: 01-01-07-2512

DE



Technische Information und
Kalibrierungswerte

Dieses Dokument enthält detaillierte Information über den KMS Drucksensor 250 kPa. Weitere Informationen, Bedienungsanleitungen, Schaltpläne finden Sie auf unserer Website: kms.vankronenburg.nl.

Inhalt von diesem Kit

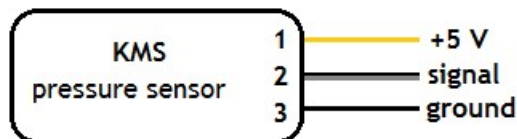
- KMS Drucksensor 250 kPa
- 3-poliger superseal Stecker
- Bedienungsanleitung KMS Drucksensor 250 kPa

Spezifikation

- EMC Schutz bis zu 100V
- Temperatur kompensiert
- Metrischer außgang
- Sensor beständig gegen Kraftstoffen (incl. diesel) und Schmierstoffe

Verkabelung

- Gelb: +5V Anschluß vom ECU
- Grau/schwarz: Signal (0-5V) zum ECU
- Schwarz: Sensormasse zur Sensormasse vom ECU



KMS Drucksensor 250 kPa

Kalibrationswerte

- Bei 3.75 Volt: 197 kPa
- Bei 1.25 Volt: 72 kPa

Wenn ein KMS ECU verwendet wird, müssen diese Werte in der KMS ECU Software eingestellt werden. Siehe Abbildung unten für ein Beispiel:

A screenshot of a software interface titled 'Boost value calibration'. It contains two rows of settings. The first row is 'Pressure at MAP output 3,75V:' with a numeric input field containing '197' and a 'kpa' unit label. The second row is 'Pressure at MAP output 1,25V:' with a numeric input field containing '72' and a 'kpa' unit label. Each input field has small up and down arrow icons on its right side.

Boost value calibration		
Pressure at MAP output 3,75V:	197	kpa
Pressure at MAP output 1,25V:	72	kpa


‘Engine-load 2’ Werte für der Software Einstellungen

- Min. Werte: 15
- Max. Werte: 250

Wenn ein KMS ECU verwendet wird, müssen diese Werte in der KMS ECU Software eingestellt werden. Wenn Sie einen niedrigeren Druckskala zu verwenden, siehe nächste Seite. Siehe Abbildung unten für ein Beispiel:

Engine-load 2

MAP MAF

Response type: 

Max. value Engine load 2:

Min. value Engine load 2:

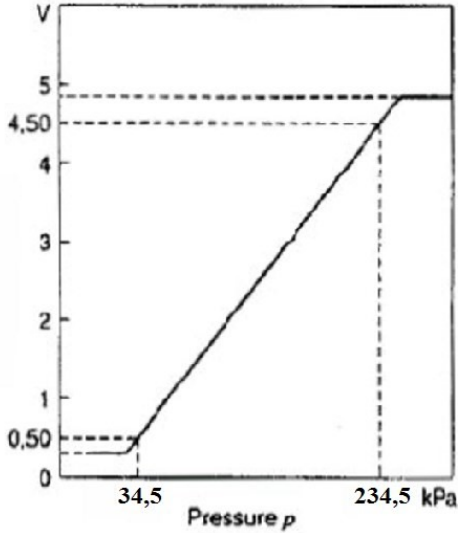
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Technical data				
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Upper Limit at Uv = 5 V	Volt	4.476	4.606	4.736
Response time 10/90	ms	-	1	-
Warm up time	ms	-	20	-
Operating temperature	Deg. C	-40	0 to 85	125

Pressure (kPa)	Min. Value	Max. Value
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0-200	15	200
0-150	15	150
0-100	15	100

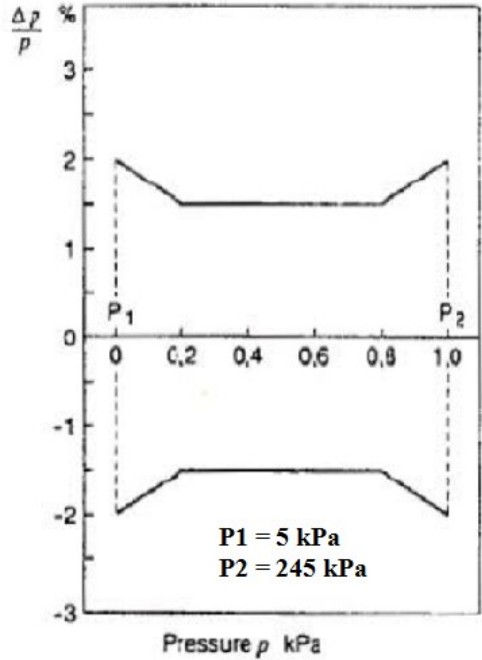
KMS Drucksensor 250 kPa

Alternative Druckskala

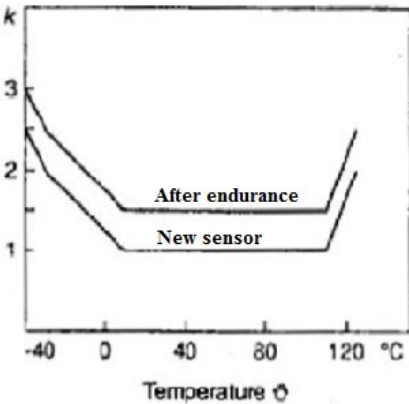
Characteristic curve ($U_V = 5.0V$)



Characteristic-curve tolerance



Tolerance extension factor



KMS Drucksensor 250 kPa



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