

Pressure sensor 250 kPa



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



Pressure sensor 250 kPa

EN

Part nr: 01-01-07-2512



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 or on the software CD included with the ECU.

Package contents

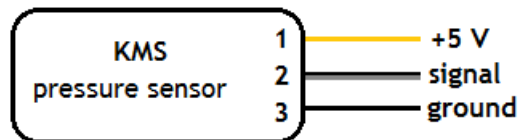
- KMS pressure sensor 250 kPa module
- 3P contra connector superseal
- KMS pressure sensor 250 kPa user manual

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:

Boost value calibration

Pressure at MAP output 3,75V: kpa

Pressure at MAP output 1,25V: 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:

Automatic cal.

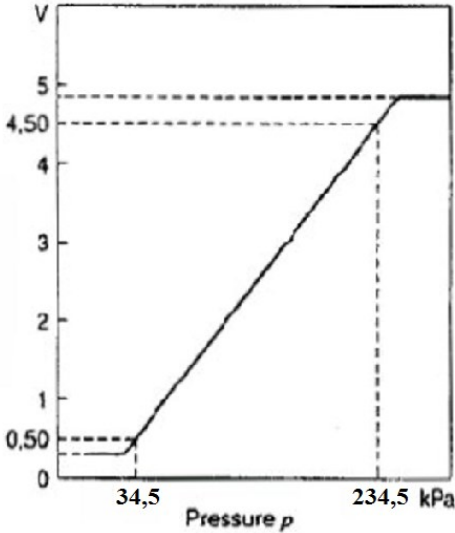
Technical data

		Min.	Typical	Max.
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	-	20	-
Operating temperature	Deg. C	-40	0 to 85	125

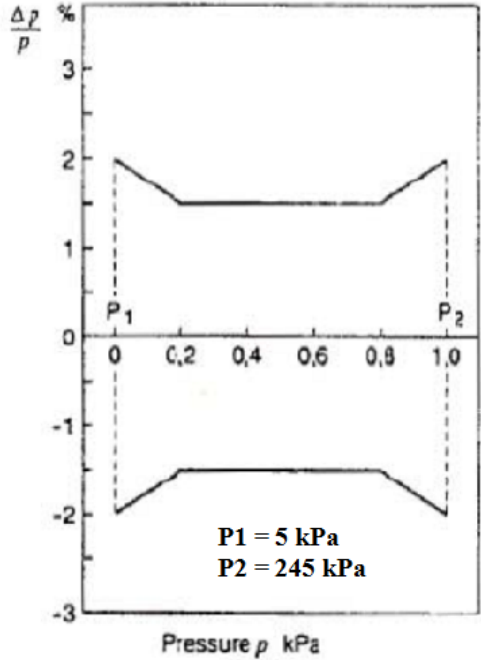
KMS pressure sensor 250 kPa



Characteristic curve ($U_v = 5.0v$)

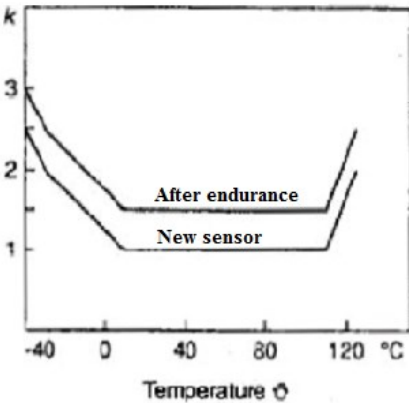


Characteristic-curve tolerance



EN

Tolerance extension factor



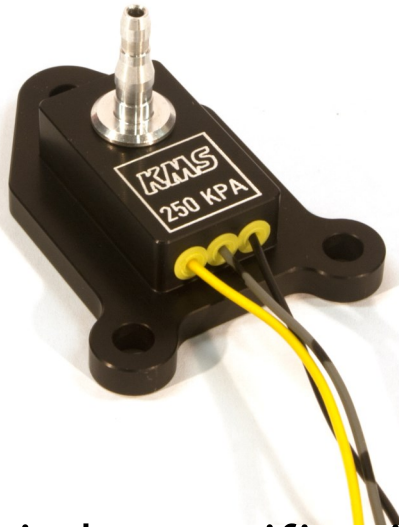
Alternative pressure scales

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

Druksensor 250 kPa

NL

Onderdeel nr: 01-01-07-2512



Technische specificaties en
calibratie 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 of op de software CD bijgeleverd bij deze ECU.

Inhoud van de kit

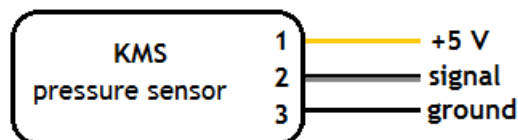
- KMS druksensor 250 kPa
- 3 polige contra stekker superseal
- KMS druksensor 250 kPa handleiding

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:

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: [Graph icon]
 Max. value Engine load 2: 250
 Min. value Engine load 2: 15
 Automatic cal.

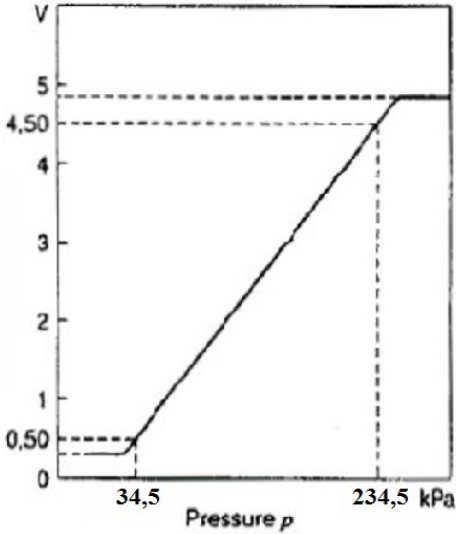
Technical data

		Min.	Typical	Max.
Supply voltage Uv	Volt	4.74	5.1	5.46
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Response time 10/90	ms	-	1	-
Warm up time	ms	-	20	-
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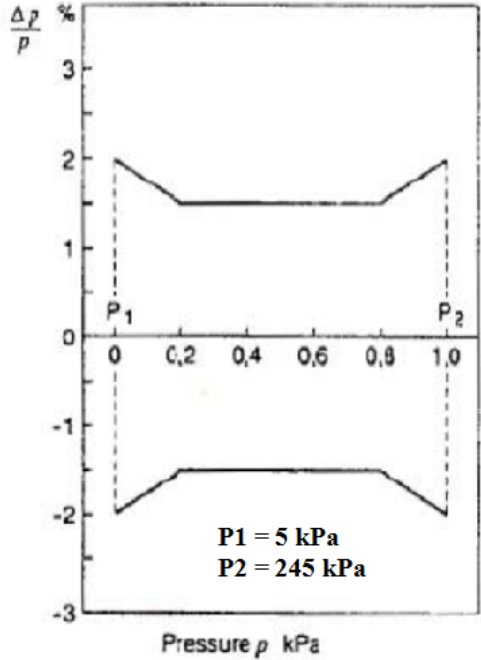
KMS druksensor 250 kPa



Characteristic curve ($U_v = 5.0v$)

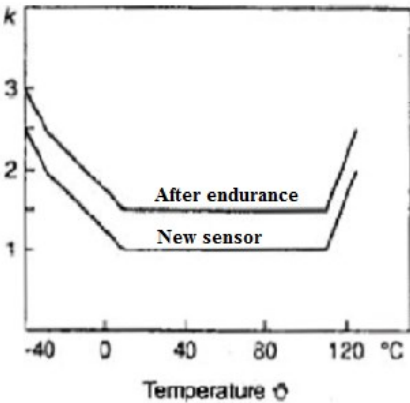


Characteristic-curve tolerance



NL

Tolerance extension factor



Alternatieve drukschalen

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

Drucksensor 250 kPa

DE

Teilenummer: 01-01-07-2512



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 oder auf die bei dem Steuergerät beigelegten CD.

Inhalt von diesem Kit

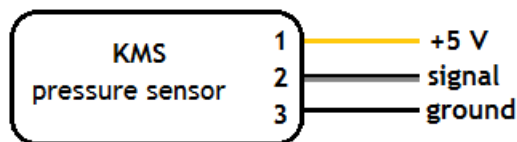
- KMS Drucksensor 250 kPa
- 3-poliger superseal Stecker
- Bedienungsanleitung KMS Drucksensor 250 kPa

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:

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: [Linear Graph]
 Max. value Engine load 2: 250
 Min. value Engine load 2: 15
 Automatic cal.

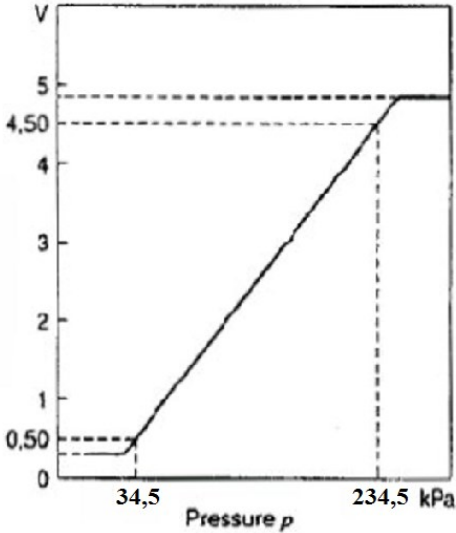
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Response time 10/90	ms	-	1	-
Warm up time	ms	-	20	-
Operating temperature	Deg. C	-40	0 to 85	125

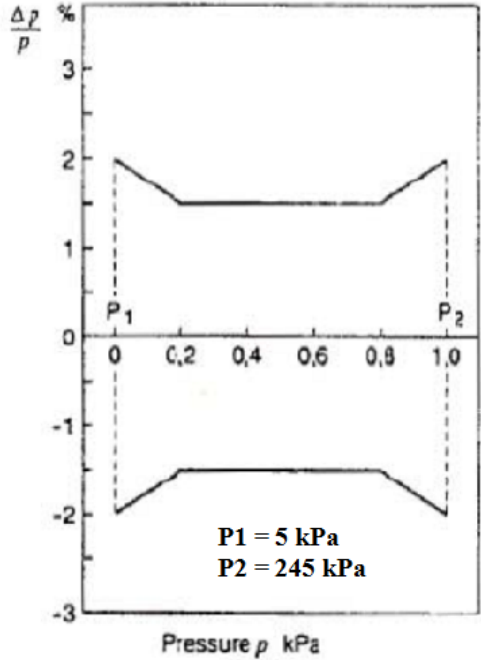
KMS Drucksensor 250 kPa



Characteristic curve ($U_v = 5.0v$)

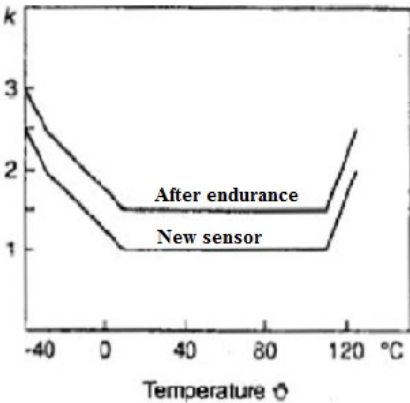


Characteristic-curve tolerance



DE

Tolerance extension factor



Alternative Druckskala

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



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*Please visit our website for more information, manuals, software and prices:
kms.vankronenburg.nl*