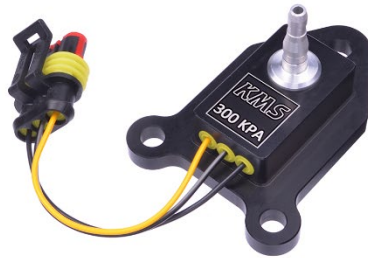


Pressure sensor 300 kPa



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

Pressure sensor 300 kPa

Part nr: 01-01-07-3012

EN



Technical specifications and calibration values

This document contains detailed information about the technical specifications and calibration values for the KMS pressure sensor 300 kPa. Additional information, user manuals, wiring examples and software can be found on our website:
kms.vankronenburg.nl

Package contents

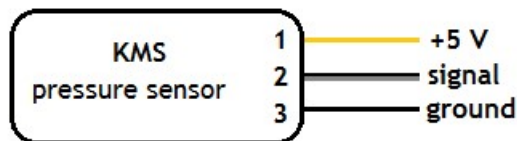
- KMS pressure sensor 300 kPa module
- 3P contra connector superseal
- KMS pressure sensor 300 kPa user manual

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

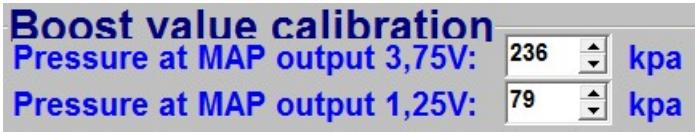


KMS pressure sensor 300 kPa

Calibration values

- At 3.75 volt: 236 kPa
- At 1.25 volt: 79 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'. It shows two rows of settings. The first row is 'Pressure at MAP output 3,75V:' with a value of '236' in a text box and a 'kpa' unit label. The second row is 'Pressure at MAP output 1,25V:' with a value of '79' in a text box and a 'kpa' unit label. Each text box has a small up/down arrow icon to its right.

Boost value calibration		
Pressure at MAP output 3,75V:	236	kpa
Pressure at MAP output 1,25V:	79	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

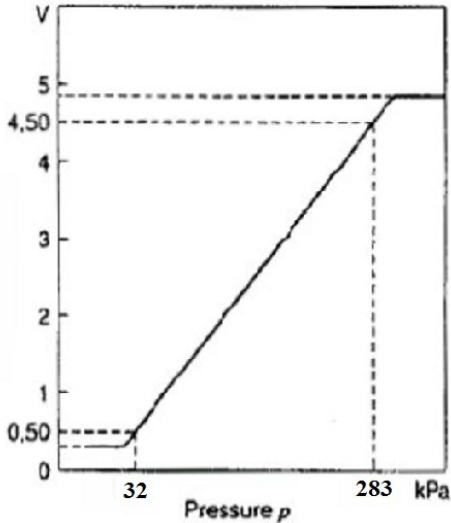
Response type: 

Max. value Engine load 2:

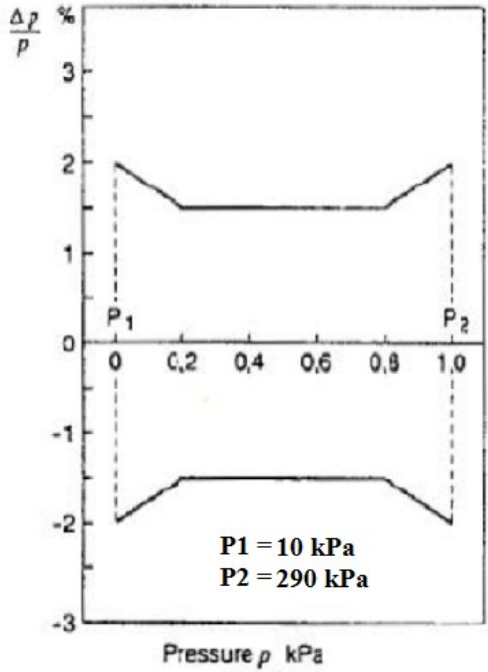
Min. value Engine load 2:

Technical data		<i>Min. Typical</i>		<i>Max.</i>
Supply voltage U _v	Volt	4.74	5.1	5.46
Current input I _v at U _v = 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 U _v = 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

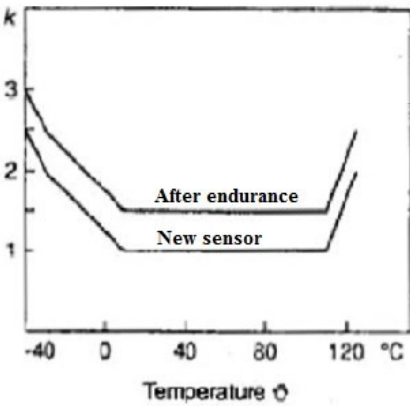
Characteristic curve ($U_V = 5.0V$)



Characteristic-curve tolerance



Tolerance extension factor



Pressure (kPa)	Min. Value	Max. Value
0-300	15	250
0-250	15	210
0-200	15	170
0-150	15	130
0-100	15	90

Alternative pressure scales

Druksensor 300 kPa

Onderdeel nr: 01-01-07-3012

NL



Technische specificaties en
kalibratie waarden

Dit document bevat gedetailleerde informatie over de KMS druksensor 300 kPa. Overige informatie, handleidingen, kabelboomschema's en software kan worden gevonden op onze website: kms.vankronenburg.nl

Inhoud van de kit

- KMS druksensor 300 kPa
- 3 polige contra stekker superseal □ KMS druksensor 300 kPa handleiding

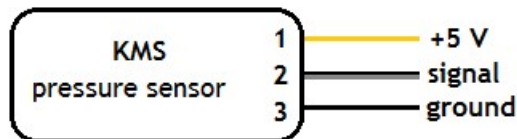
Specificaties

- 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

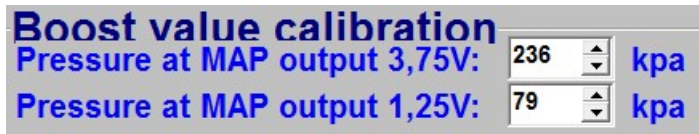
ECU



Calibratiewaarden

- Bij 3.75 volt: 236 kPa
- Bij 1.25 volt: 79 kPa

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




‘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

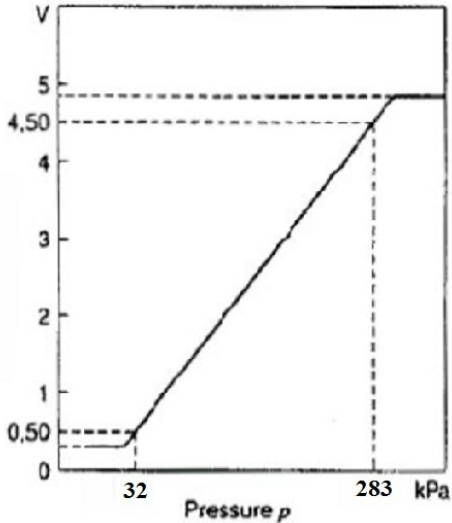
Response type: 

Max. value Engine load 2:

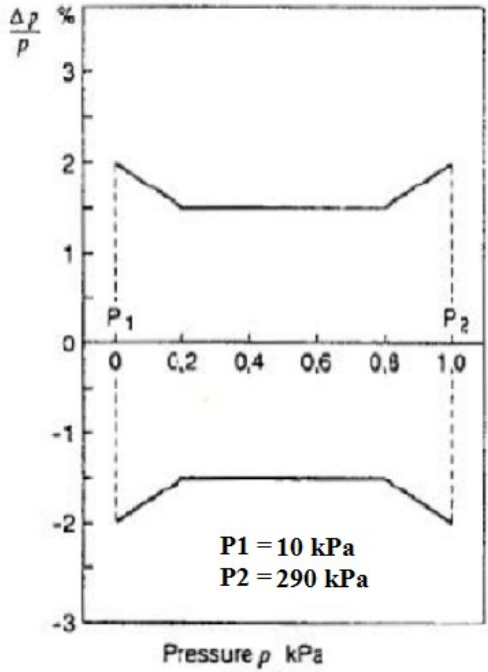
Min. value Engine load 2:

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

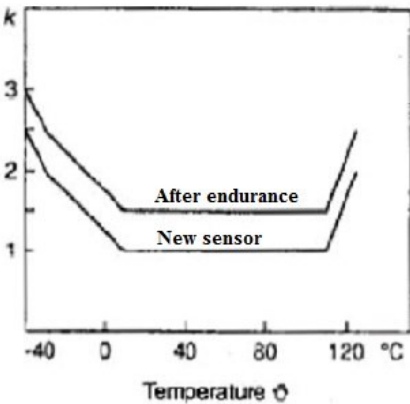
Characteristic curve ($U_V = 5,0V$)



Characteristic-curve tolerance



Tolerance extension factor



Pressure (kPa)	Min. Value	Max. Value
0-300	15	250
0-250	15	210
0-200	15	170
0-150	15	130
0-100	15	90

Alternatieve drukschalen

Drucksensor 300 kPa

Teilenummer: 01-01-07-3012

DE



Technische Information und Kalibrierungswerte

Dieses Dokument enthält detaillierte Information über den KMS Drucksensor 300 kPa. Weitere Informationen, Bedienungsanleitungen, Schaltpläne finden Sie auf unserer Website: kms.vankronenburg.nl

Inhalt von diesem Kit

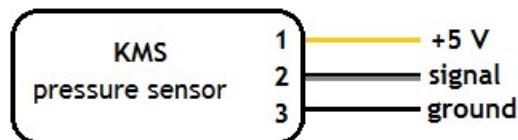
- KMS Drucksensor 300 kPa
- 3-poliger superseal Stecker
- Bedienungsanleitung KMS Drucksensor 300 kPa

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

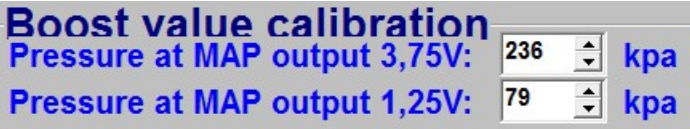


KMS Drucksensor 300 kPa

Kalibrationswerte

- Bei 3.75 Volt: 236 kPa
- Bei 1.25 Volt: 79 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 the 'Boost value calibration' menu in the KMS ECU software. The title 'Boost value calibration' is in blue. Below it, two settings are shown: 'Pressure at MAP output 3,75V:' with a value of 236 and 'Pressure at MAP output 1,25V:' with a value of 79. Each value is in a white box with up and down arrows, followed by the unit '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: 

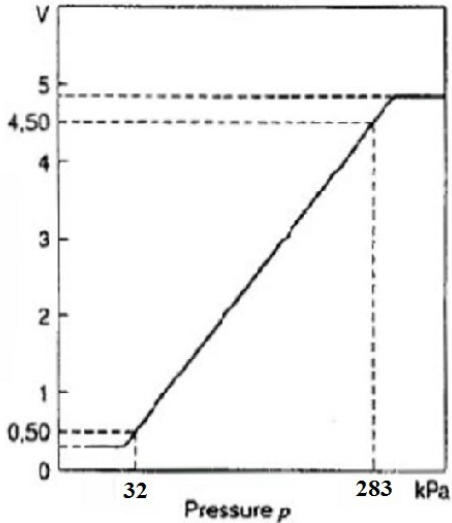
Max. value Engine load 2:

Min. value Engine load 2:

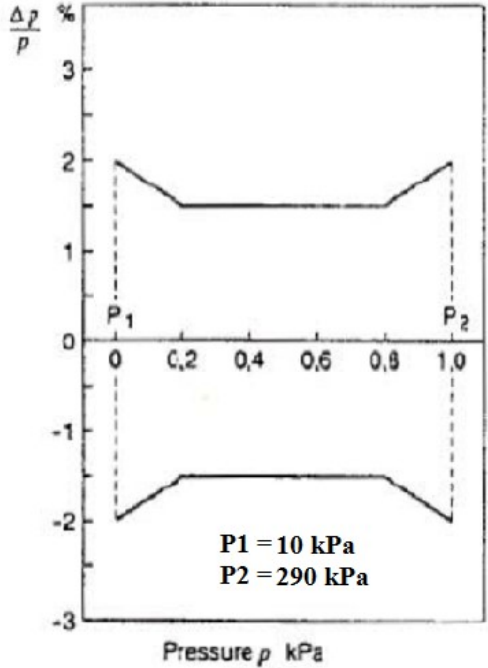
		<i>Min.</i>	<i>Typical</i>	<i>Max.</i>
Technical data				
Supply voltage U _v	Volt	4.74	5.1	5.46
Current input I _v at U _v = 5 V	mA	-	6	10
Minimum pressure offset (0 to 85°C)	Volt	0.241	0.306	0.371
Accuracy (at 25°C)	Volt	-	0.0701	-
Upper Limit at U _v = 5 V	Volt	4.476	4.606	4.736
Response time 10/90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

KMS Drucksensor 300 kPa

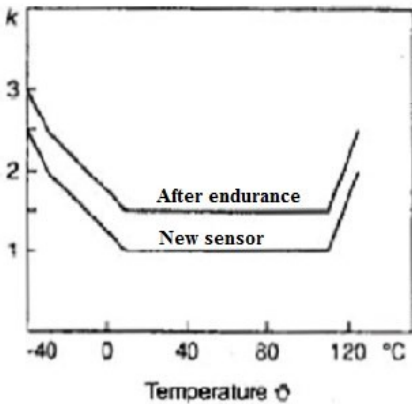
Characteristic curve ($U_V = 5.0V$)



Characteristic-curve tolerance



Tolerance extension factor



Pressure (kPa)	Min. Value	Max. Value
0-300	15	250
0-250	15	210
0-200	15	170
0-150	15	130
0-100	15	90

Alternative Druckskala

KMS Drucksensor 300 kPa



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