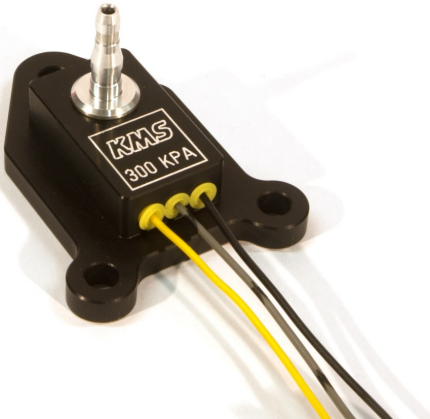




## Pressure sensor 300 kPa



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

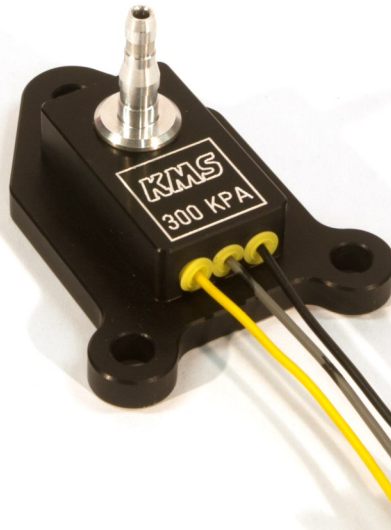




## Pressure sensor 300 kPa

EN

Part nr: 01-01-07-3012



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](http://kms.vankronenburg.nl) or on the software CD included with the ECU.

## Package contents

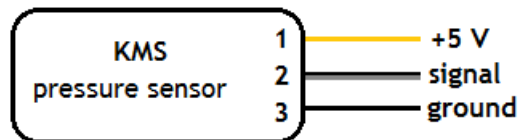
- KMS pressure sensor 300 kPa module
- 3P contra connector superseal
- KMS pressure sensor 300 kPa user manual

## 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:

**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.

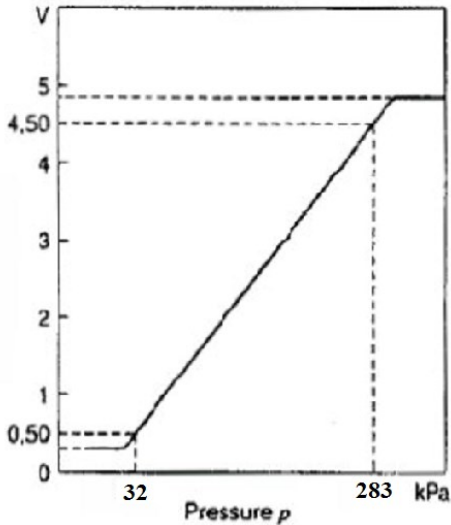
## Technical data

		Min.	Typical	Max.
Supply voltage U <sub>v</sub>	Volt	4.74	5.1	5.46
Current input I <sub>v</sub> at U <sub>v</sub> = 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 <sub>v</sub> = 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

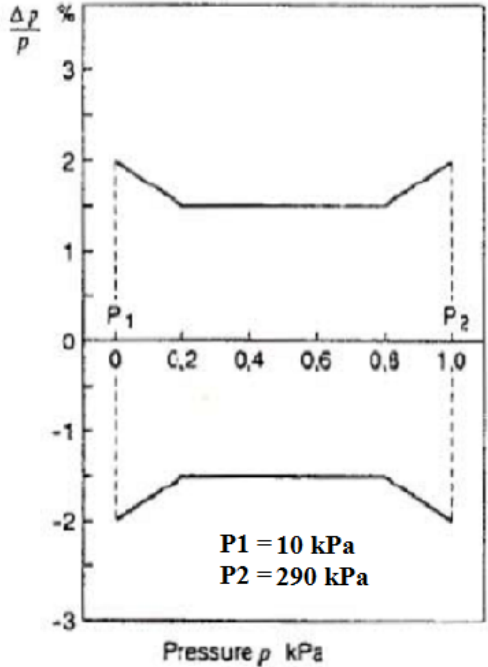
## KMS pressure sensor 300 kPa



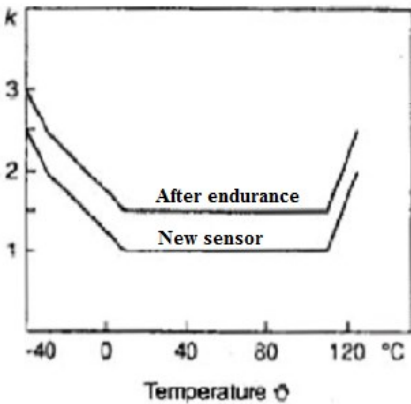
Characteristic curve ( $U_v = 5.0v$ )



Characteristic-curve tolerance



Tolerance extension factor



Alternative pressure scales

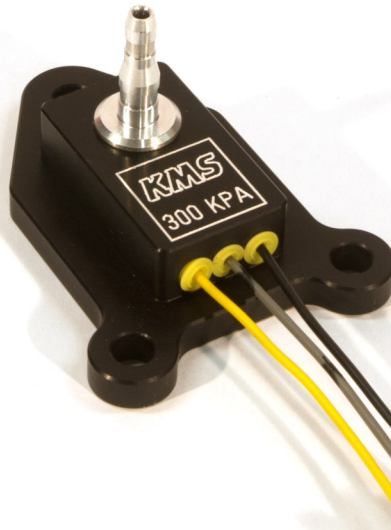
Pressure (kPa)	Min. Value	Max. Value
0-300	15	250
0-250	15	210
0-200	15	170
0-150	15	130
0-100	15	90

EN

## Druksensor 300 kPa

NL

Onderdeel nr: 01-01-07-3012



Technische specificaties en  
calibratie 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](http://kms.vankronenburg.nl) of op de software CD bijgeleverd bij deze ECU.

## Inhoud van de kit

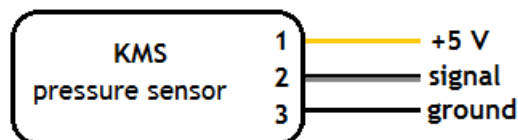
- KMS druksensor 300 kPa
- 3 polige contra stekker superseal
- KMS druksensor 300 kPa handleiding

## 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:

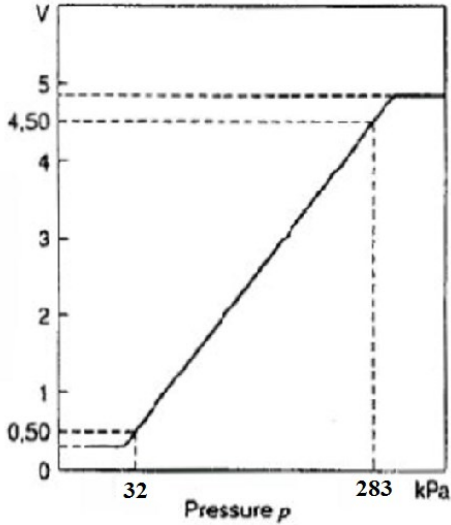
## Technical data

		<i>Min.</i>	<i>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	-	20	-
Operating temperature	Deg. C	-40	0 to 85	125

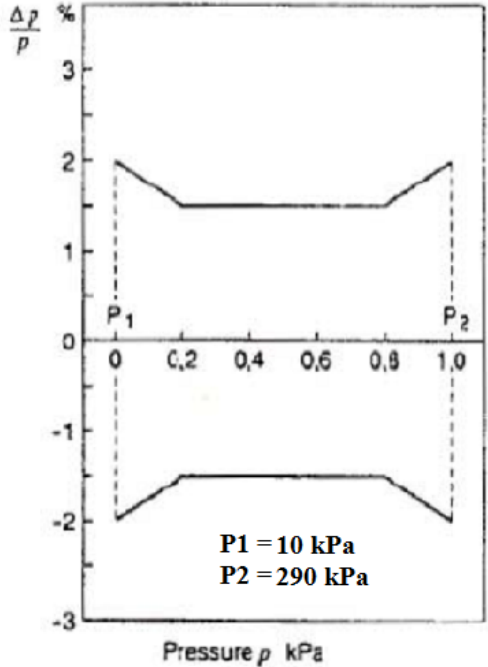
## KMS druksensor 300 kPa



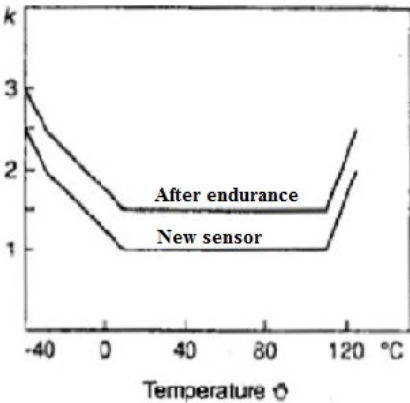
Characteristic curve ( $U_v = 5.0v$ )



Characteristic-curve tolerance



Tolerance extension factor



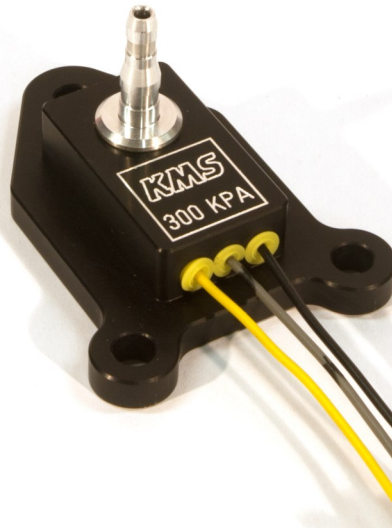
Alternatieve drukschalen

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

## Drucksensor 300 kPa

DE

Teilenummer: 01-01-07-3012



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](http://kms.vankronenburg.nl) oder auf die bei dem Steuergerät beigelegten CD.

## Inhalt von diesem Kit

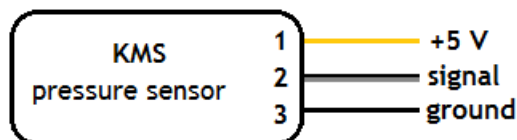
- KMS Drucksensor 300 kPa
- 3-poliger superseal Stecker
- Bedienungsanleitung KMS Drucksensor 300 kPa

## 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



## 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:

**Boost value calibration**  
 Pressure at MAP output 3,75V: 236 kpa  
 Pressure at MAP output 1,25V: 79 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: 250  
 Min. value Engine load 2: 15  
 Automatic cal.

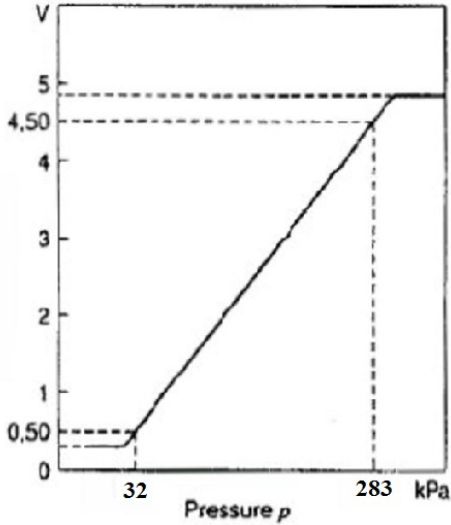
## Technical data

		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

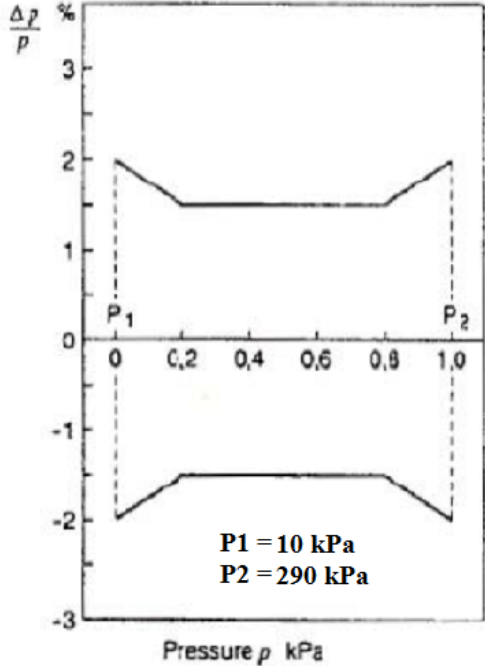
## KMS Drucksensor 300 kPa



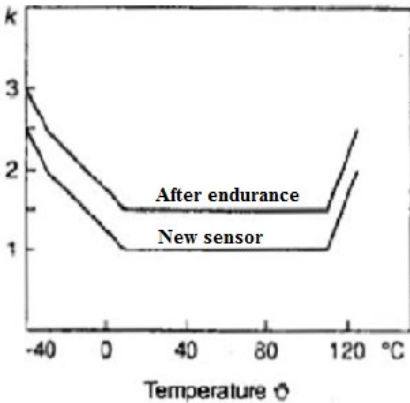
Characteristic curve ( $U_v = 5.0v$ )



Characteristic-curve tolerance



Tolerance extension factor



Alternative Druckskala

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





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*Please visit our website for more information, manuals, software and prices:  
[kms.vankronenburg.nl](http://kms.vankronenburg.nl)*