

KMS

KMS pressure sensor 1000 kPa

Part nr: 01-01-07-0023



Kronenburg Management Systems

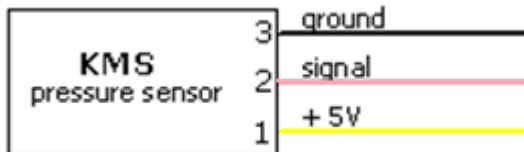
This document contains detailed information about the KMS pressure sensor 1000 kPa. Additional information, user manuals, wiring examples and software can be found on our website: <http://kms.vankronenburg.nl> or on the software CD included with the ECU.

Contents of the package:

- KMS Pressure sensor 1000 kPa
- 3P contra connector superseal
- KMS pressure sensor 1000 kPa 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

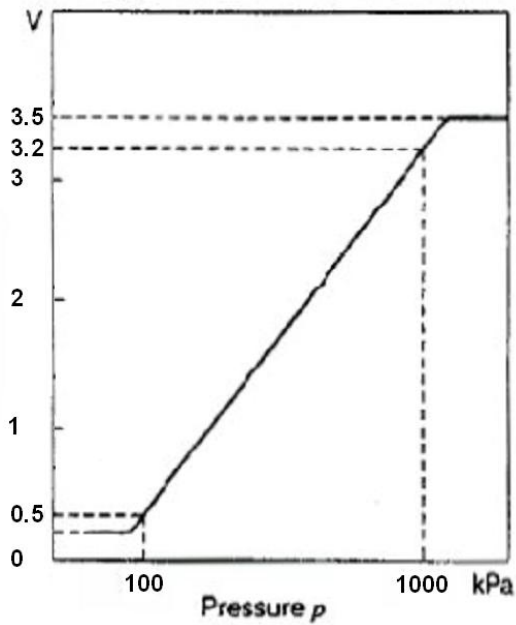


Wiring:

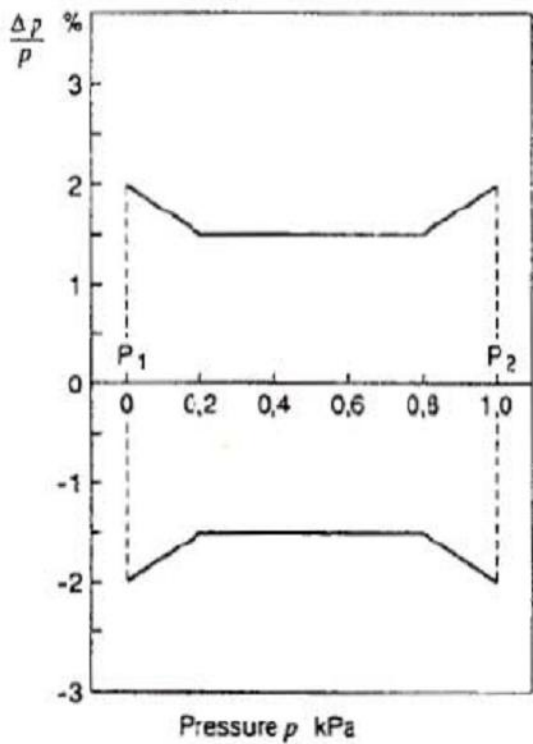
- Yellow: +5V supply from ECU
- Pink/black: signal (0-5V). Connect to ECU.
- Black: sensor ground. Connect to sensor ground of ECU.

Technical data		<i>Min.</i>	<i>Typical</i>	<i>Max.</i>
Supply voltage U_v	Volt	4.5	5.0	5.5
Current input I_v at $U_v = 5\text{ V}$	mA	6	9	12.5
Load current	mA	-90	-	105
Load resistance to ground or U_v	K Ohm	50	-	-
Lower Limit at $U_v = 5\text{ V}$	Volt	0.085	0.100	0.115
Upper Limit at $U_v = 5\text{ V}$	Volt	3.30	3.50	3.70
Response time 10/90	ms	-	30	-
Operating temperature	Deg. C	-40	-	+125
Limit data				
supply voltage U_v	Volt	-	-	16
operating temperature	Deg. C	-40	-	+130

Characteristic curve ($U_v = 5.0v$)



Characteristic-curve tolerance



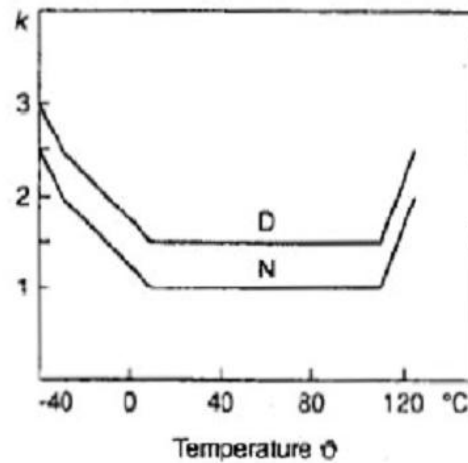
$P_1 = 100 \text{ kPa}$

$P_2 = 1000 \text{ kPa}$

Calibration values

- At 3.20 volt 1000 kPa $\pm 5 \text{ kPa}$ (see tolerance curves)
- At 0.50 volt 100 kPa $\pm 5 \text{ kPa}$ (see tolerance curves)

Tolerance extension factor



N = new sensor

D = after endurance