

OEM Specification Datasheet - 8010004

JJ-CCR

R17JJ-CCR Oxygen Sensor



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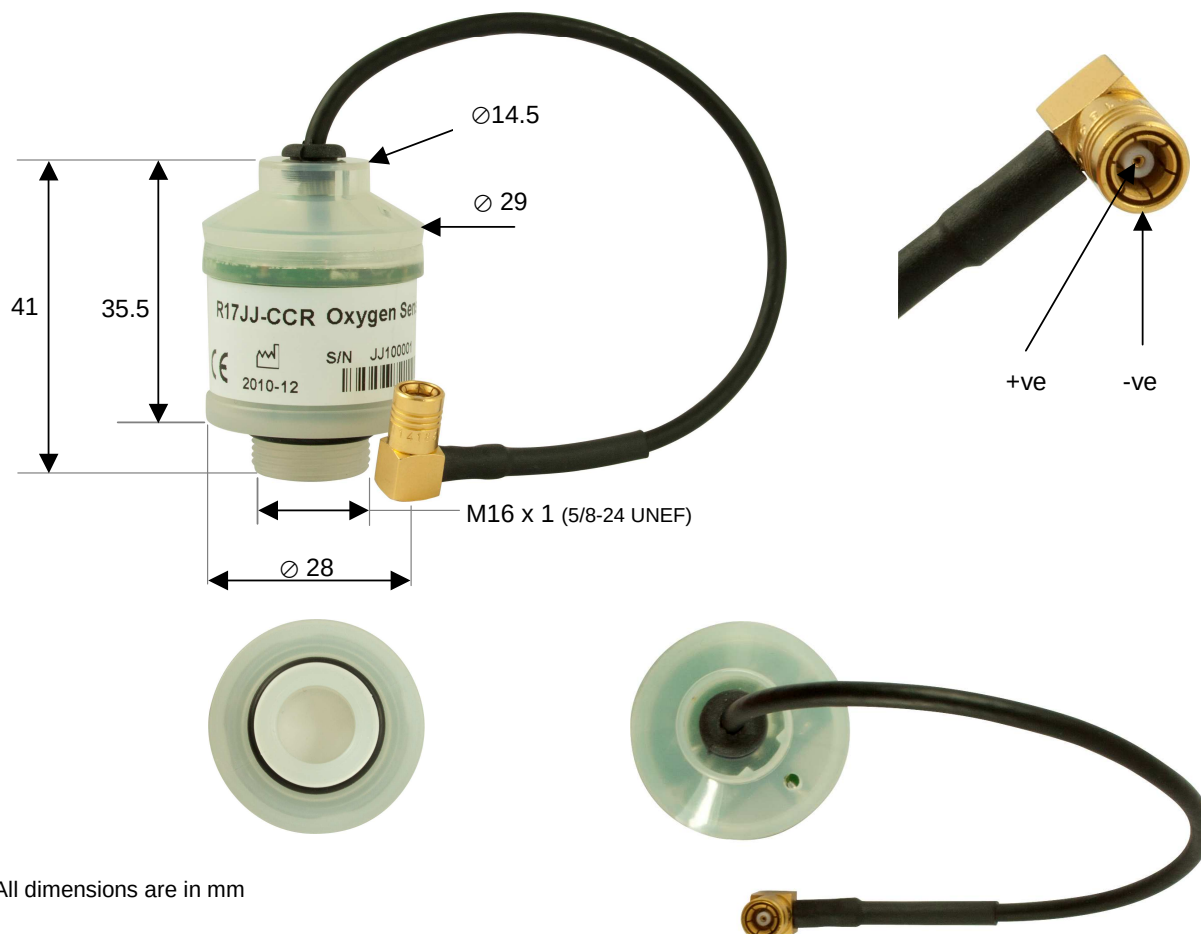
v1.0
15/03/11

Specifications

VST part number	8010004
OEM model number	R17JJ-CCR Oxygen Sensor
Output	9 – 13 mV
Output connector	Radial SMB Series R114.186.000 Right angled plug, crimp type
Cable	Belden RG174AU, length 15 cm
Input	Threaded M16 x 1mm
Input O ring	Yes
Input casing cap	8030101
Sensor body casing	8030200
Output casing cap	8030301
Range	0 – 2 bar PPO ₂
Pressure range	600 to 2500 mbar
Linearity error	0.1 to 1.0 bar < 3% relative 0.1 to 2.5 bar < 5% relative
Warm up time	< 30 minutes after sensor installed
Zero offset voltage	< 0.5% oxygen reading in 100% nitrogen @ 25°C after 36 seconds
Cross interference	<0.5% vol. O ₂ response to 5% CO ₂ balance N ₂
Response time	< 6 s for 90% of final value.
Operating humidity	0 – 99% R.H. (non-condensing).
Influence of humidity	- 0.03% relative per % R.H. at 25 °C.
Influence of mechanical shock	< 1% after fall from 1m
Operating temperature range	0 – 40 °C
Storage temperature	-20 to +50 °C
Recommended storage temperature	+5 to +15 °C
Temperature compensation	Integrated NTC network
Temperature compensation error	+/- 5% of full scale over the operating temperature range. Worst case tracking error (within first hour after maximum temperature step) is +/- 7.5% of full scale, (gas sample must be brought to ambient temperature). Percent readout is only within +/-1% at constant pressure (e.g. a 10% increase in pressure will result in a 10% increase in reading).
Nominal sensor life	≥ 500,000 % oxygen hours
Long term output drift	< 1% vol oxygen per month, typically < -15% over sensor lifetime.
Shelf life	24 months
Load required	≥ 10 K Ohms
Input - membrane protection grille	No
Input - hydrophobic membrane	Yes - Zitex®
Conformal coating on PCB	Yes – Kontakt Chemie Plastik 70
Pressure equalization - PCB	Yes – 2 x 3mm holes
Pressure equalization - output cap	Yes – 1 x 2mm hole
Weight (approximate)	31 g
Flow diverter	No
Packaging	Gas barrier bag - transparent
Warranty period	12 months from date of sales invoice
All specifications are applicable at standard conditions: 1013 mbar, 25°C dry ambient air.	

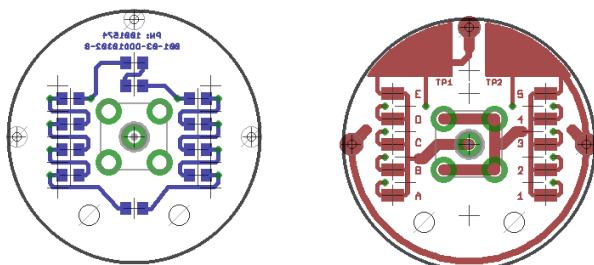
Specifications subject to change

Drawings/images



All dimensions are in mm

PCB layout

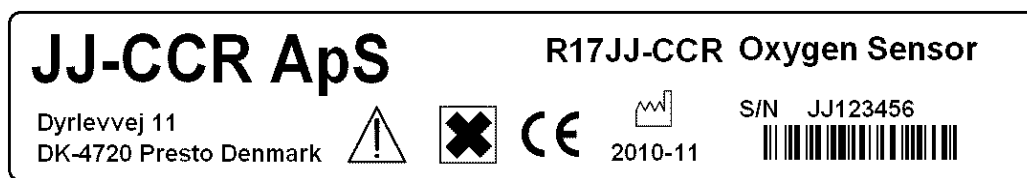


Labelling

Oxygen sensor label

90.0mm x 15.0mm

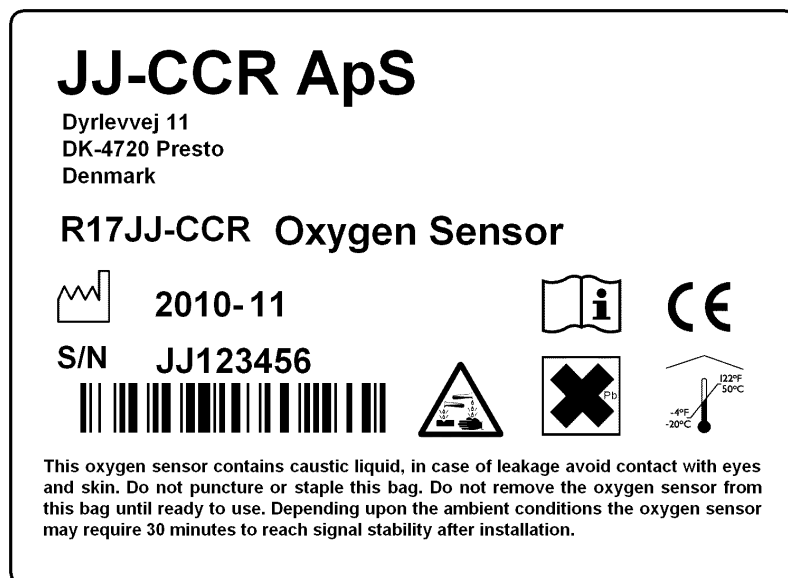
White vinyl label, text & graphics - black



Gas barrier bag label

63.5mm x 46.6mm

White label, text & graphics – black



NOTE: Serial number prefix to be **JJ** e.g. **JJ100001**