

# Datasheet

## Pressure CPS001-30SA-18Cu-PI25/FI



accensors

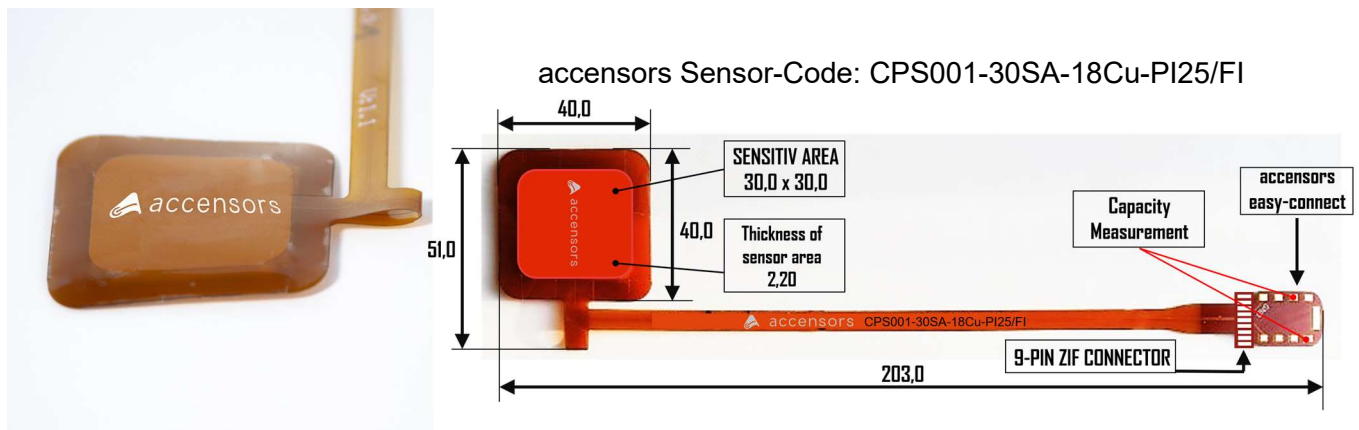
for more information visit

[www.accensors.com](http://www.accensors.com)

*Flexible Foil sensor for pressure measurement in the range from 0 mmHg to 110 mmHg, response time below <1,5 sec.*

Foil sensor with integrated capacity pressure sensing element with embedded elastic spacer. Foil material is PI with embedded copper electrodes between PI. Colour is amber. Connection to measurement electronics via accensors easy-Connect or ZiF Connector. Contact pads are (accensors easy-connect & ZiF) oxidation protection. The foil sensor thickness is 2,20mm in the area of the sensor element. The sensitiv area is still flexible and formable.

### Special application: Pressure bandage monitoring on the patient



### Sensor performance

		CPS001-30SA-18Cu-PI25/FI	Units
Pressure Range		0 to 110	mmHg
Precision		+/- 5	mmHg
Sensitivity		2.6	%/4mmHg
		3.1	%.N-1
Accuracy		-	mmHg
Max allowable pressure		300	mmHg
Tolerance band set		+/- 3	mmHg
Response times	TS (settling time)	21.25	s
	T90	1.25	s
	T65	0.75	s
Back reaction time (Td)		2.6	min
Drift (over 1h - 15h, under 24N)		+6.3	mmHg
		+1.3	N
Hysteresis (at 30sec)		4.5	mmHg
Electrode dimensions		25x25	mm
Plate dimensions		35x35	mm



TRL 7



MRL 7

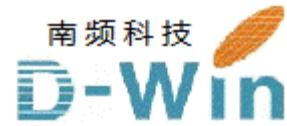
# Technology Readiness Level



TRL 0	TRL 1	TRL 2	TRL 3	TRL 4	TRL 5	TRL 6	TRL 7	TRL 8	TRL 9
Idea unproven concept no testing has been performed.	Problem Solving Core principles are explored and observed but no experimental proof available.	Concept Generation Concept & application have been explored.		Proof of concept Prototype Testing done on core mechanisms and function	Rough Working- Prototype Tested in intended environment	Prototype Field Trials Tested in intended environment close to expected performance	Pre-Production Prototype Operating in operational environment at precommercial scale.	First Production Runs Manufacturing issues solved.	Full Commercial- Production Technology available for consumers.
<b>LEVEL EXIT CRITERIA</b>									
<ul style="list-style-type: none"> <li>• Concepts identified</li> <li>• Research carried out and refined</li> <li>• Technology development</li> <li>• Identify material concerns</li> </ul>	<ul style="list-style-type: none"> <li>• Early indications of materials identified</li> <li>• Manufacturing feasibility determined</li> <li>• Manufacturing processes identified</li> </ul>	<ul style="list-style-type: none"> <li>• Characteristics identified</li> <li>• Early supply chain assessment</li> </ul>	<ul style="list-style-type: none"> <li>• Initial trade studies</li> <li>• Quality thresholds established</li> </ul>	<ul style="list-style-type: none"> <li>• Assessed supply chain</li> <li>• BOM in development</li> <li>• Materials being tested</li> <li>• Demonstrate supply chain BOM Draft</li> </ul>	<ul style="list-style-type: none"> <li>• Establish multiple sources</li> <li>• Pilot line builds validated</li> <li>• Materials proven</li> <li>• Quality characteristics validated</li> <li>• BOM finalised</li> </ul>	<ul style="list-style-type: none"> <li>• Continuous process improvements</li> <li>• Materials in control</li> <li>• Quality validated with LRP articles</li> <li>• Make/buy supports</li> </ul>	<ul style="list-style-type: none"> <li>• Monitor and manage all key characteristics at a Six Sigma level</li> </ul>	<ul style="list-style-type: none"> <li>• Manufacturing Management Applied</li> <li>• Six Sigma to the production</li> </ul>	<ul style="list-style-type: none"> <li>• Manufacturing Production</li> <li>• Getting the quality, costs and performance on target.</li> </ul>
MRL 1	MRL 2	MRL 3	MRL 4	MRL 5	MRL 6	MRL 7	MRL 8	MRL 9	MRL 10



# Manufacturing Readiness Level



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