

Datasheet

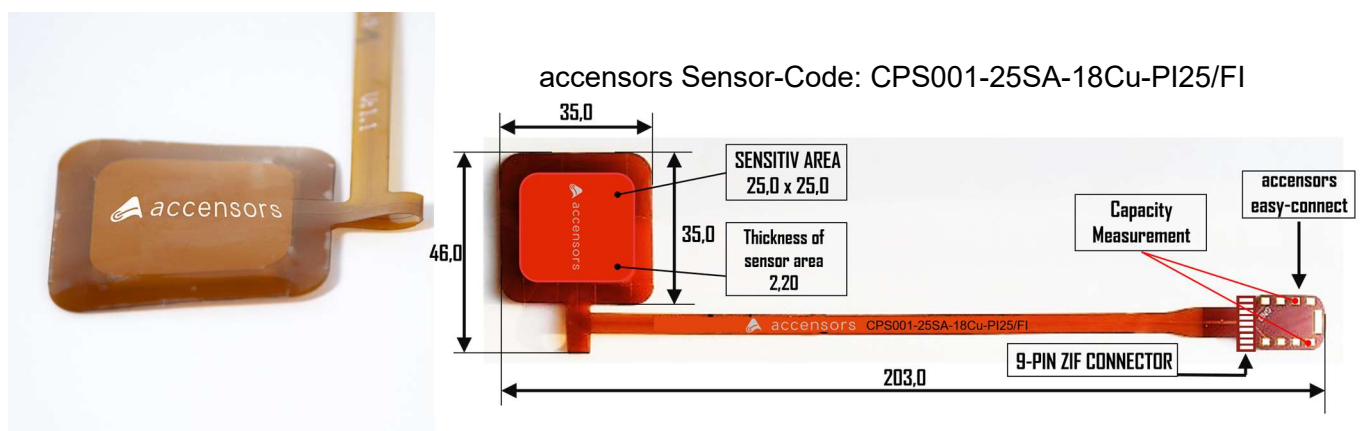
Pressure CPS001-25SA-18Cu-PI25/FI



Flexible Foil sensor for pressure measurement in the range from 0 mmHg to 80 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

		CPS001-25SA-18Cu-PI25/FI	Units
Pressure Range		0 to 80	mmHg
Precision		+/- 3.8	mmHg
Sensitivity		2.8	%/4mmHg
		4.1	%.N-1
Accuracy		+/- 4.1	mmHg
Max allowable pressure		300	mmHg
Tolerance band set		+/- 3	mmHg
Response times	TS (settling time)	57	s
	T90	1.4	s
	T65	0.75	s
Back reaction time (Td)		3	min
Drift (over 1h - 15h, under 24N)		+9.3	mmHg
		+1.6	N
Hysteresis (at 30sec)		5.5	mmHg
Electrode dimensions		25x25	mm
Plate dimensions		35x35	mm



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 mechanism 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.	
	• Concepts identified • Research carried out and refined • Technology development • Identify material concerns			• Early indications of materials identified • Manufacturing feasibility determined • Manufacturing processes identified	• Characteristics identified • Early supply chain assessment	• Initial trade studies • Quality thresholds established	• Assessed supply chain • BOM in development • Materials being tested • Demonstrate supply chain BOM Draft	• Establish multiple sources • Pilot line builds validated • Materials proven Quality characteristics validated • BOM finalised	• Continuous process improvements • Materials in control • Quality validated with LRIP articles • Make/buy supports	• Monitor and manage all key characteristics at a Six Sigma level
LEVEL EXIT CRITERIA										
• Prior Consultancy Knowledge As a consultancy, having worked on successful solutions for many Industries, the first 3 manufacturing readiness levels are tackled and kept in mind by our early sage product-development stages.	• Small Scale Prototype • Crude prototypes to test technology	• Refine Manufacturing Strategy • Identification of enabling technologies and components.	• Prototype Development • Manufacturing processes have been defined but requires design for manufacturing	• Design for Manufacturing • Manufacturing detailing is underway.	• Pilot Line Demonstration • Manufacturing processes are proved	• Manufacturing Production • Getting the quality, costs and performance on target.	• Manufacturing Management Applied • Six Sigma to the production			
MRL 1	MRL 2	MRL 3	MRL 4	MRL 5	MRL 6	MRL 7	MRL 8	MRL 9	MRL 10	



Manufacturing Readiness Level



www.accensors.com 代理商联系方式:

样品, 评估板, 参考设计, 报价, 技术支持

电话: 0755-82565851

邮件: dwin100@dwintech.com

手机: 156-2521-4151

网址: www.dwintech.com/accensors.html

深圳市南频科技有限公司

D-Win Technology(HK) Co.,Ltd

