

PRODUCT CATALOG

Wireless
Temperature
Monitoring System



Company Profile

Origin

PQSense was founded in 2016, our vision is to become the world's best switchgear temperature monitoring solution provider.

We reached the plug-and-play installation goal on current product portfolio, we will continue to explore and pioneer, bringing our technology into new applications of electrical equipment temperature monitoring.

Organization and Facility

PQSense is home based in Taiwan, with offices and manufacturing facilities in Taiwan and China.

Unique Strength of PQSense

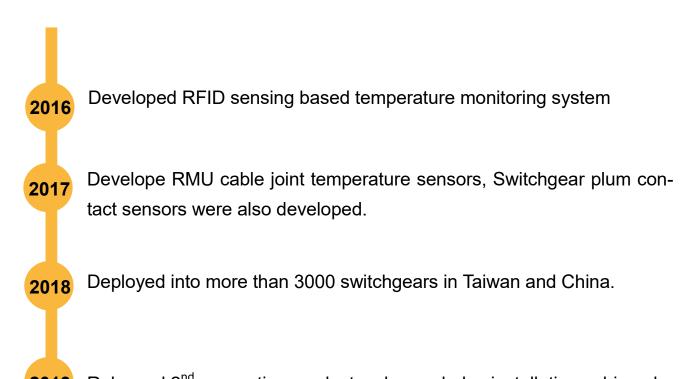
We started this business with a role of system integrator, where we accumulated vast amount of on-site experience, giving us first-hand knowledge of what customers need and identified problems to be solved.



Who We Are & What We Do

PQSense's founder and key members have had over 30 years of experience in electrical system, we started deploying switchgear temperature monitoring system as early as 2010, using various technology available at the time. After installation a few thousand switchgears, we concluded that none of the existing solution is good enough.

Timeline





Sensors

	Product No. / Product Name PQS-SR-01 Bolt Mount Sensor	Dimension (mm) 69(L) × 27(W) × 23 (H)	Mount Type Bolt or Cable Tie	Read Distance* 2-3 meters	Measure Range -20°C ~ +125°C	Applicable Occasions Busbar
? ? ?	PQS-SR-02 Plum Contact Sensor	14(L) x 9(W) x 4 (H)	Complementing Fixture	~1 meters	-20°C ~ +125°C	Plum contact
990	PQS-SR-03 Male Plug Sensor	14(L) x 9(W) x 4 (H)	Silicone Rubber Strap	~1 meters	-20°C ~ +125°C	Male contact
SISA SISC	PQ-SR-04 Flat-man Sensor	47(L) x 25(W) x 2(H)	Bolt	2-3 meters	-20°C ~ +125°C	Metal stud
ETFE ETFE	PQS-SR-05 25 x 25 mm Sensor	25(L) x 25(W) x 4(H)	Cable tie	1-2 meters	-20°C ~ +125°C	Busbar

^{*}Note: Read Distance may vary with different antenna and circumstances.

^{*}Note: Accuracy of all sensors are +/- 2°C.



Sensors

	Product No. / Product Name	Dimension (mm)	Mount Type	Read Distance*	Measure Range	Applicable Occasions
	PQS-SR-11	Sensor: 10 x 5 x	Screw-In	0.8 meters	-20°C ~	RMU cable
	Nut Sensor	3 Nut: 20 x 23 x 13 (M12)			+125°C	head
	PQS-SR-13	Same as	Embedded	~1 meter	-20°C ~	Cable
S09B	Insulator Embedded	original insulator's size.			+125°C	Insulator

^{*}Note: Read Distance may vary with different antenna and circumstances.

^{*}Note: Accuracy of all sensors are +/- 2°C.



Fixed Readers

	Product No.	Dimensions (mm)	Antenna Ports	Comm. Interface	Installation Type	Humidity Sensor Option
	PQS-RD-01	115(L) x 80(W) x 45(H)	4 ports	1 Set RS485/ Modbus RTU	Rack Mount	No
# # # # # # # # # # # # # # # # # # #	PQS-RD-11/4	190(L) x 100 (W) x 41(H)	4 ports	2 Sets RS485/ Modbus RTU	Screw Mount Rack Mount (Optional)	Yes
FFFFFFF	PQS-RD-11/8	190(L) x 100 (W) x 41(H)	8 ports	2 Sets RS485/ Modbus RTU	Screw Mount Rack Mount (Optional)	Yes

*Note: Operation Temperature are all -20°C to 70°C

*Note: Power Supply are all AC/DC 85-265V Wide Range Input

Handheld Reader

	Dimensions			Comm.	
 Product No.	(mm)	Battery Cap.	OS	Interface	Read Distance
PQS-HR-01	164.2 (L) x 24.3 (W) x 80.0(H)	8000mAh Li-On Battery	Android	Wifi, 3G/4G/ Bluetooth, USB Type-C	3-5 Meters, depends on sensor type



Antennas

Product No.	Dimensions (mm)	Connector	Installation Type	Polarization	Gain
PQS-AN-11	142(L) x 106 (W) x 15(H)	SMA male	Magnet Mount or Screw Mount	Circular	3 dbi
PQS-AN-25W25	260(L) x 260 (W) x 40(H)	SMA male	Magnet Mount or Screw Mount	Circular	9 dbi

^{*}Note: Operation Temperature are all -20°C to 85°C

Meter

	Product No.	Dimensions (mm)	Power Supply	Installation Type	Comm. Interface	Operation Temperature
25.4 ₂	PQS-MT-01	135 (L) x 96 (W) x 48(H)	AC/DC 85- 265V Wide Range Input	Panel Mount	2 sets RS485/ Modbus RTU (1 Master, 1 Slave)	-20 to 70°C
Press A C	PQS-MT-02 (Touch Screen Display)	160(L) x 107 (W) x 21.4(H)	DC 6-40V, <5 Watt	Panel Mount	1 set of RS485/ Modbus RTU (1 Master)	-10 to 70°C



Demo Box

	Product No.	Dimensions (mm)	Functions	Mounted Equipment	Compatible Sensors
	PQS-DB-11	400(W) x 320(D)	• 2 sets of copper bar	PQS-RD-11	PQS-SR-01
	x 225H) (Closed) 400(W) x 480(D) x 450H) (Open)	,,	with heat element	PQS-MT-02	PQS-SR-02
		 Functional Meter with Alarm and 	PQS-AN-11	PQS-SR-03	
			Temperatures		PQS-SR-04
					PQS-SR-05



Switchgear Application Case #1













Switchgear Application Case # 2















Ring Main Unit Application Case # 1















Ring Main Unit Application Case # 2























Transformer Application Case #1













Transformer Application Case # 2



























Pole Transformer Application Case # 1















Low Voltage Application Case #1

















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