Acrel

ELECTRONIC CONTACT

Online Temperature Monitoring Solution

Acrel
ARTM-Pn
MENU
Conf
Temp
Para
DI
DO
Conn
Alam
Debg
Info
ESC

Six Features

Escort for You

Achieve Electrical Isolation

•••

Easy Wireless Installation

•••

Long Lifetime of Sensor

•••

High Temperature Resistance

•••

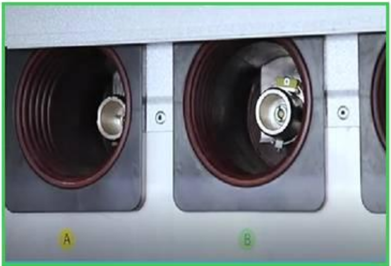
High Accuracy Temp. Measurement

•••

Electrical Equipment Safety Guarantee

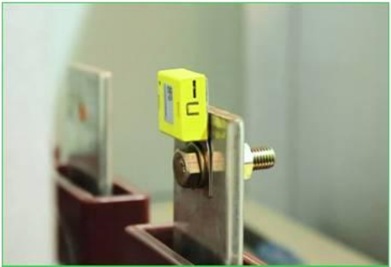
•••

SUITABLE FOR MULTI CLOCK SITUATION



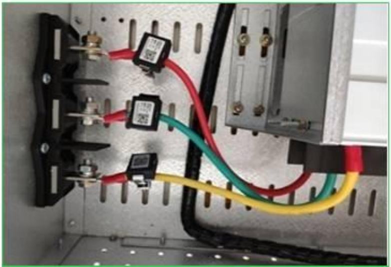
HV CONTACT TEMP. MONITORING

CAPACITOR TEMP. MONITORING



HV & LV BUS BAR TEMP. MONITORING

REACTANCE TEMP. MONITORING



LV CABLE JOINT TEMP. MONITORING

TRANSFORMER TEMP. MONITORING

MOTOR TEMP. MONITORING

INDOOR CABINET CABLE TRENCHES TEMP. MONITORING

IDC COMPUTER ROOM TEMP. MONITORING

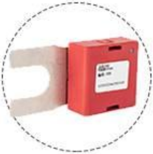
LV CIRCUIT BREAKER TEMP. MONITORING

LV CAPACITOR TEMP. MONITORING

LV DISTRIBUTION BOX TEMP. MONITORING

PRODUCT SELECTION

PRODUCT SELECTION OF WIRELESS TEMPERATURE SENSOR



ATE100
Temperature range: -50□~+125□
Communication distance: 150m in open area
Bolted Installation

ATE »

ATE100M
Temperature range: -50□~+125□
Communication distance: 150m in open area
Magnetic Installation

ATE200
Temperature range: -50□~+125□
Communication distance: 150m in open area
Belt Installation

ATE100P
Temperature range: -50□~+125□
Communication distance: 150m in open area
Bolted Installation

ATE200P
Temperature range: -50□~+125□
Communication distance: 150m in open area
Belt Installation

ATE400
Temperature range: -50□~+125□
Communication distance: 150m in open area
Alloy plate fixed, CT-powered

PRODUCT SELECTION OF WIRELESS TRANSCEIVER

ATC

ATC450-C
Power supply: DC24V
1 RS485, Modbus-RTU protocol
35mm Din rail installation, Screw fixed

ATC600
Power supply: AC/DC85~265V
1 RS485, Modbus-RTU protocol
35mm Din rail installation, Screw fixed

PRODUCT SELECTION OF DISPLAY TERMINAL

DISPLAY

ARTM-Pn Wireless Temperaturing Measuring Device
Power Supply: AC85~265V or DC100~300V
1 RS485, Modbus-RTU protocol
Panel cut-out, Embedded installation

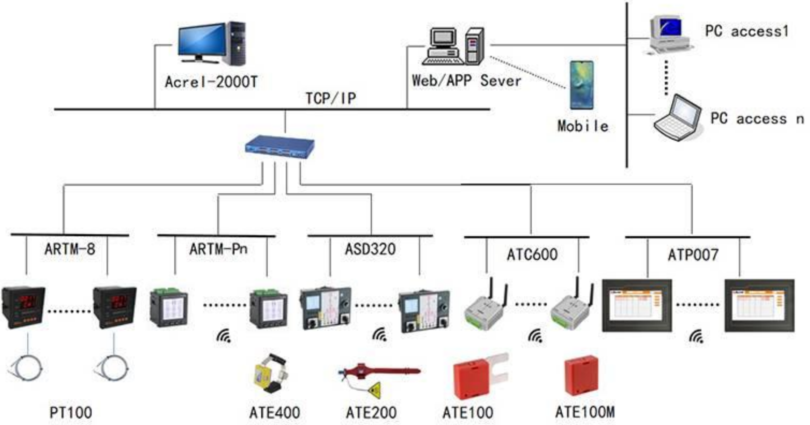
ASD300/320 Switchgear Control Device
Power Supply: AC85~265V or DC100~300V
1 RS485, Modbus-RTU protocol
Panel cut-out, Embedded installation

ATP007 Wireless Temperature Measurement Touch Screen
Power Supply: DC24V
1 RS485, Modbus-RTU protocol
Panel cut-out, Embedded installation

ACREL-2000T/A Wireless Temperature Measurement Centralized Collection Equipment
Power Supply: AC85~265V or DC100~300V
1 RS485, Modbus-RTU protocol
Wall mounted installation

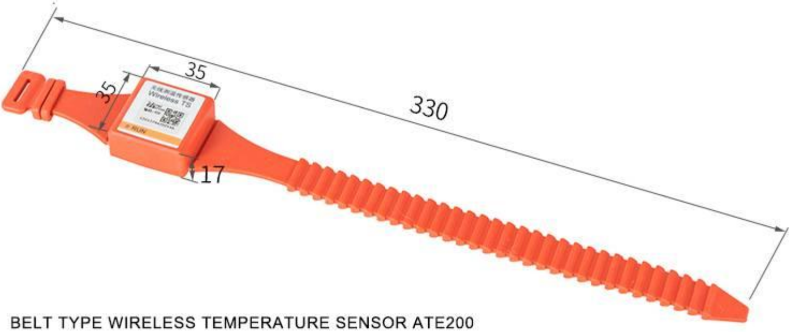
ACREL-2000T/B Wireless Temperature Measurement Centralized Collection Equipment
4G Memory, 1T Hard disk, Ethernet Interface
12-inch displayer, Resolution of 800*600
Wall mounted installation

NETWORKING SCHEME

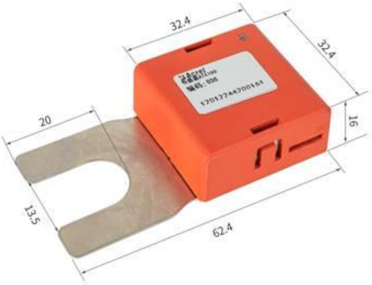


PRODUCT SIZE

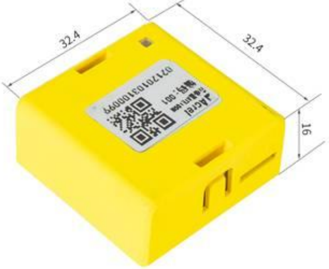
Installation of Wireless Temperature Sensor



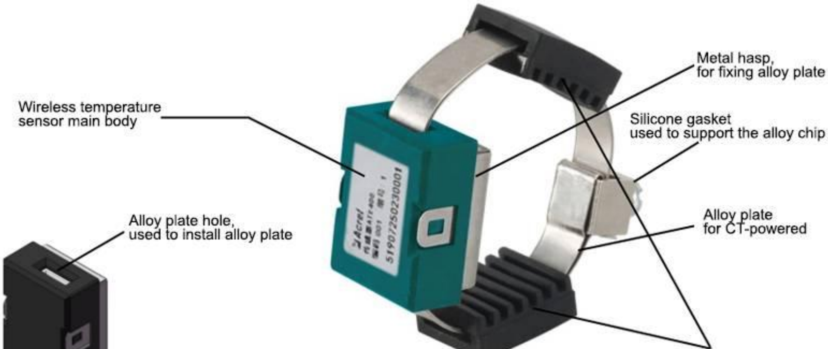
BELT TYPE WIRELESS TEMPERATURE SENSOR ATE200



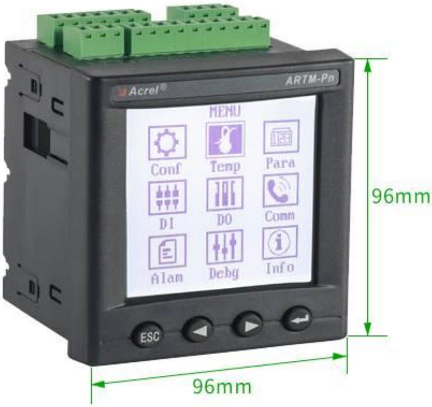
Bolted Type Wireless Temperature Sensor ATE100

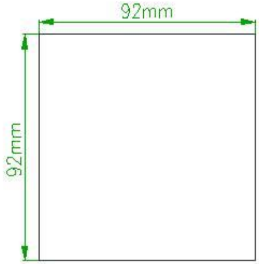


Magnetic Type Wireless Temperature Sensor ATE100M



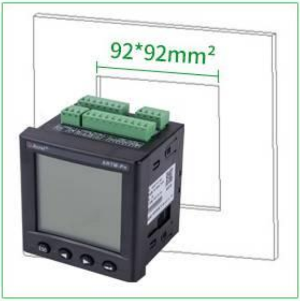
Alloy bottom
touched with temperature probe

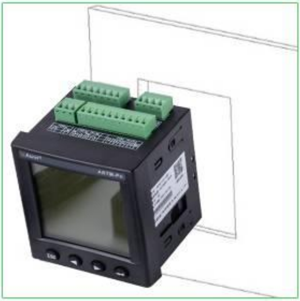




ARTM-P hole size

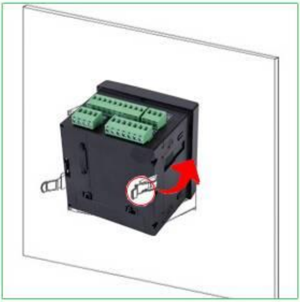
INSTALLATION DIAGRAM



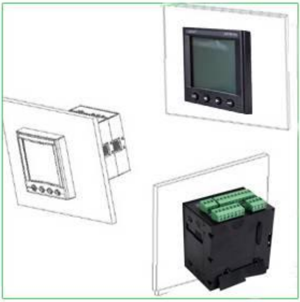


1.Make a 92*92mm hole on the panel (if there is no hole on the panel);

2.Discharge the static electricity, remove the installation terminal, and put it in the panel;



3.Use two brackets to clamp the device on the installation panel, which has a lock function;



4.Install finished.

FIELD APPLICATION CHART

无线接收器
Acrel
ATC600

Acrel
无线测温传感器
Wireless TS

PLEASE CHOOSE A CONFIGURATION PLAN BEFORE PLACING AN ORDER

Acrel Wireless Temperature Confirmation Sheet V1.5

Sales		Tel.	
Technician		Tel.	
Order No.			

1. Wireless Temperature Sensor

(When ATE200/400 has the quantity, the number of accessory is required, even if it is not needed, please fill in "0"!)

Battery Sensor	Model	ATE100	ATE100M	ATE100P	
	QTY				
Battery Sensor	Model	ATE200	ATE200P	*Accessory Model (ATE200 extension strap)	BD-6
	QTY			*QTY	
	Note	The length of ATE200 strap is 300mm. Each BD-6 can be extended by 300mm.			
CT Powered Sensor	Model	ATE400	*Accessory Model (ATE400 alloy plate)		ATE400-1J85-1
	QTY		*QTY		
	Note	When the sensor is installed where the circumference is more than 270mm, an additional alloy plate must be ordered for each point of the sensor.			

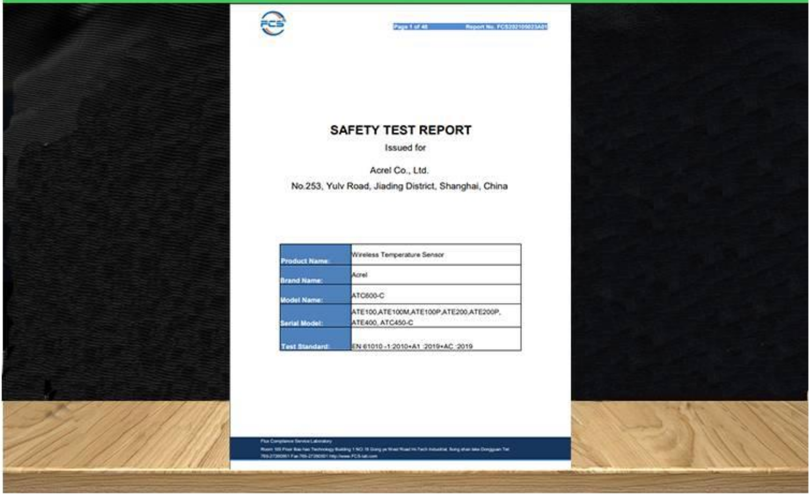
2. Transceiver & Display Terminal

Receiver	Model	ATC450-C	ATC600-C	Repeater ATC600-Z		
	QTY					
Power Module	Model	KDYA-DG30-24K				
	QTY					
Display Device	Model	ARTM-Pn	ATP007	ATP010	Acrel2000T/A-600C-2ZJ	Acrel2000T/B
	QTY					

3. Factory Configuration

(Marked with "*" are required.)			
* Whether need factory matching in advance		* With or without configuration table	Provide configuration table attachment
If there is no configuration table, list the matching relationship and indicate the number of sensors matched with each transceiver.			

QUALIFICATION CERTIFICATE
QUALITY ENTERPRISE



FCS

SAFETY TEST REPORT

Issued for

Acrel Co., Ltd.
No.253, Yulv Road, Jiading District, Shanghai, China

Product Name:	Wireless Temperature Sensor
Brand Name:	Acrel
Model Name:	ATC600-C
Serial Model:	ATE100,ATE100M,ATE100P,ATE200,ATE200P, ATE400, ATC450-C
Test Standard:	EN 61010 -1:2010+A1 :2019+AC :2019

FREQUENTLY ASKED QUESTIONS

1

BATTERY SENSORS DON'T DISPLAY TEMPERATURE.

POSSIBLE REASONS:
A.THE SENSOR'S POWER SWITCH IS NOT TURNED ON;
B.THE SENSOR AND TRANSCEIVER ARE NOT MATCHED;
C.TURN ON THE SENSOR FIRST, AND THEN POWER ON THE TRANSCEIVER, WAIT ABOUT 15MIN.
THE DISTANCE BETWEEN THE SENSOR AND THE TRANSCEIVER IS FAR.

2

PASSIVE SENSORS DON'T DISPLAY TEMPERATURE.

POSSIBLE REASONS:
A.INSTALLING LAYERS OF SENSOR'S ALLOY PLATES ARE NOT ENOUGH, AT LEAST 3 LAYERS;
B.THE SENSOR AND TRANSCEIVER ARE NOT MATCHED;
C.THE STARTING CURRENT WHEN THE SENSOR IS INSTALLED IS LESS THAN 5A;
D.THE DISTANCE BETWEEN THE SENSOR AND THE TRANSCEIVER IS FAR.

ABOUT ACREL

JIANGSU ACREL ELECTRICAL MANUFACTURING CO., LTD.

Jiangsu Acrel Electrical Manufacturing Co., Ltd., a production base located in Jiangyin City, Wuxi, is a pilot enterprise of Jiangsu Province, which integrates informatization and industrialization. It has a well-functioned product test center, and can carry out environmental, electromagnetic compatibility, safety and reliability tests. The production process relies on advanced information management system and strict implementation of ISO 9001 management standards, which provides guarantee for industrialization and large-scale implementation of products. The annual production capacity of meters, power transformers and energy-saving cabinets is 2 million units, 1.5 million units and 10,000 sets.

电气火灾及消防设备电源监控系统

Activity Exhibition Hall

Activity Exhibition Hall

R & D Center

Office

Laboratory Electromagnetic Compatibility Test

Production Workshop