

Wireless temperature measurement Solution

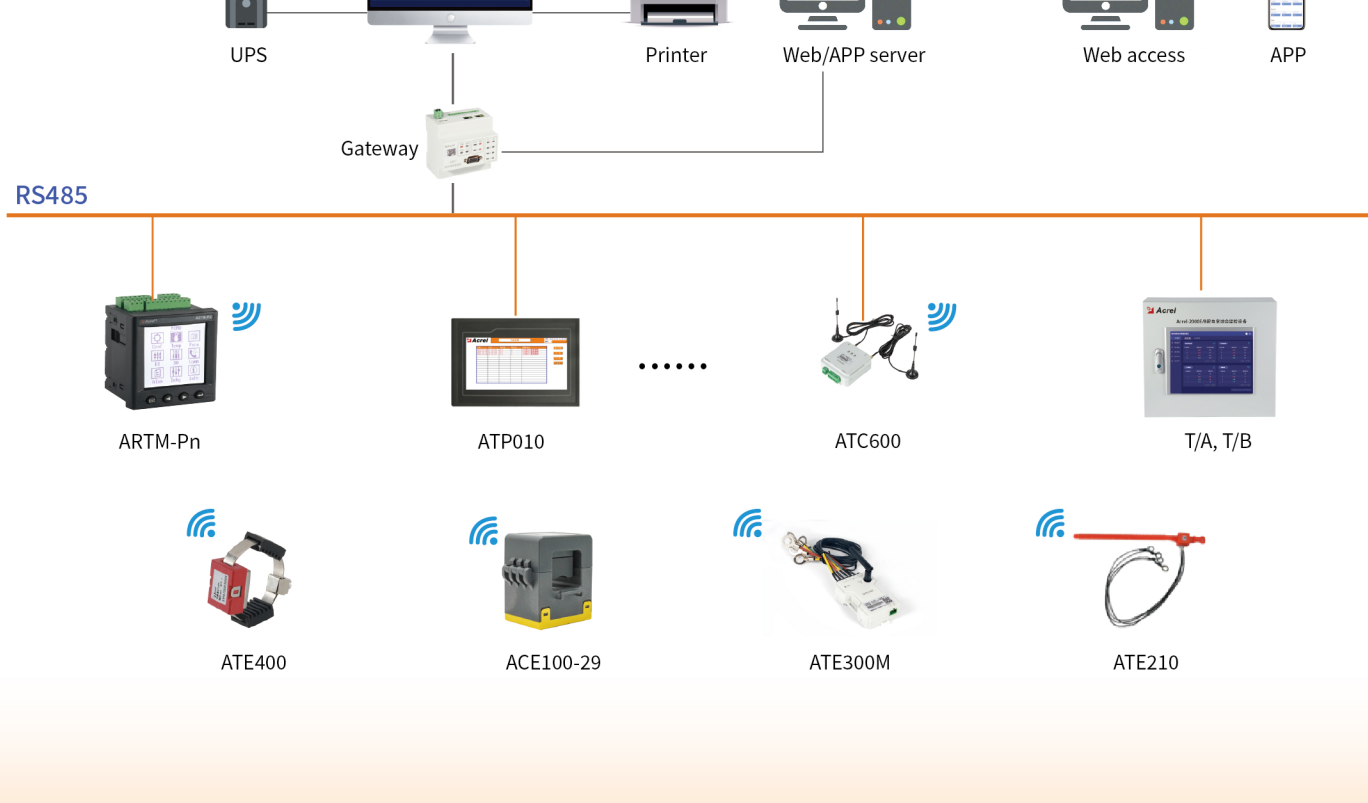
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Acrel Electric Co., Ltd.

WIRELESS TEMPERATURE MEASUREMENT SYSTEM


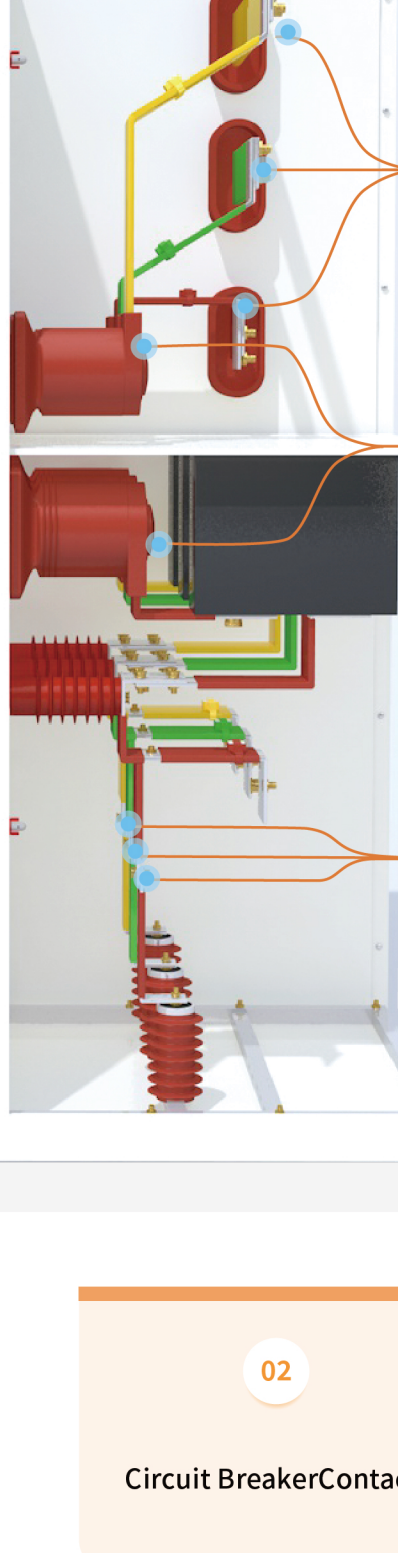
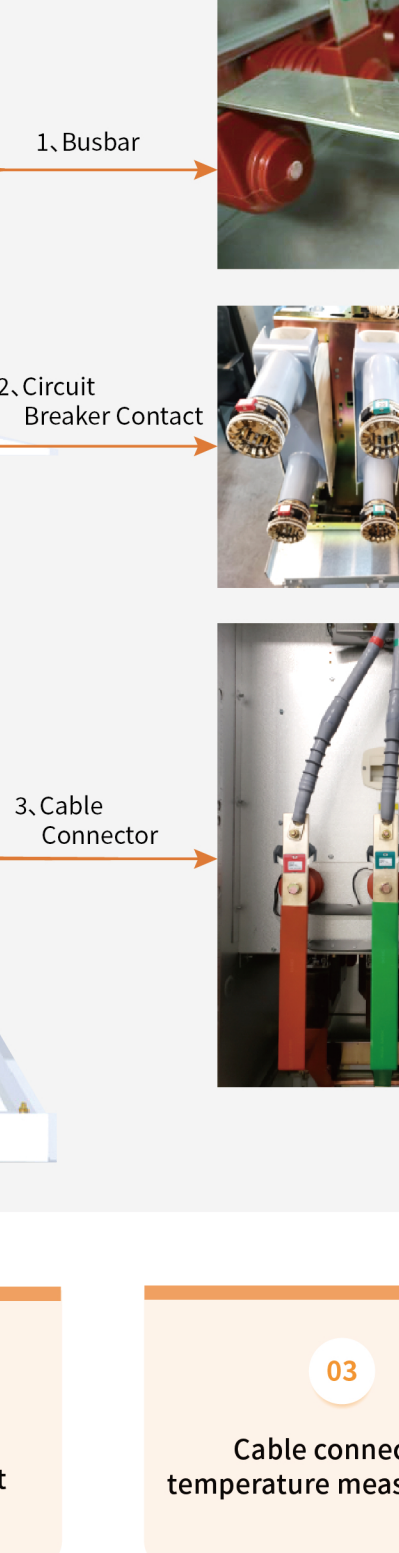
Wireless temperature is suitable for 3-35kV indoor switchgears, including built-in switchgears, handcart switchgears, fixed switchgears and loop-net switchgears. It is also suitable for 0.4kV low-voltage switchgears such as fixed switchgears and drawer switchgears. The wireless temperature sensors can be installed at any heating point in switchgears, the device utilizes the wireless data transmission technology for real-time transmission of monitored temperature data. In addition, it can be transmitted to display device or remote intelligent monitoring system.

Solution



Installation location

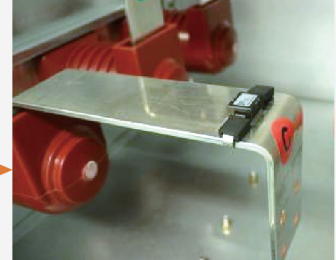


Medium Voltage Switchgear

1. Busbar

2. Circuit Breaker Contact

3. Cable Connector








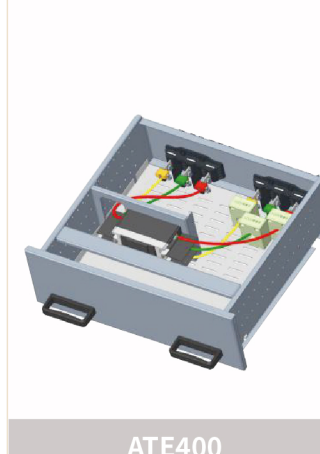

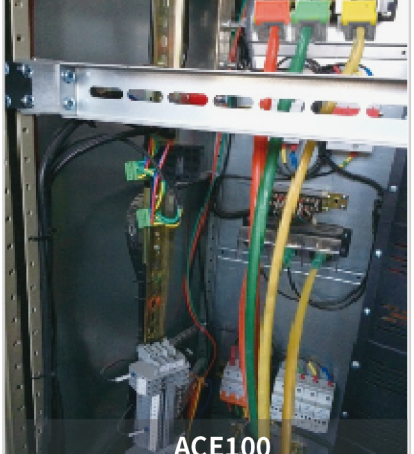
01 Busbar temperature measurement

02 Circuit BreakerContact

03 Cable connector temperature measurement

Low Voltage Power Cabinet

ATE400 CB connector/busbar temperature measurement





ATE300M Surface temperature measurement of capacitors/reactances

ATE400 Temperature measurement of drawer cabinet cable joints


ACE100 Temperature measurement of low-voltage outgoing cable joints

Technical Features

Sensors

Type	Value			
Item	ATE400	ATE300M	ATE210	ACE100
Product picture				
Wireless frequency	CE&RED 470MHz、433Mhz、868-923Mhz	CE&RED 433-510MHz	CE&RED 433MHz、470MHz、866MHz、920MHz	CE&RED 470Mhz、433Mhz
Communication distance	150m(470Mhz)、50m(433Mhz)in open area	1000m in open area	500m in open area	150m in open area
Sampling frequency	15s	1-240s	CT-powered:20S~25S (5A);Battery:5min	CT-powered:10~30S; Battery:3min
Transmission frequency	15s	1-240s	CT-powered:1:20S~25S (5A);Battery:5min	CT-powered:10~30S; Battery:3min
Power source	CT-powered, starting current≥5A Max current≤5000A	AC/DC 85~265V	Battery and CT-powered, starting current≥5A	Battery and CT-powered, starting current≥2.5A
Range	-50℃~125℃	-40℃~150℃	-40℃~150℃	temperature: -50℃~125℃ current:1~400A, AC
Precision	±1℃	±1℃	±1℃	temperature: ±1℃ current:1%FS
Battery life	—	—	≥2years(25℃)	3 years(25℃), Replaceable(CR2450)
Installation	alloy chip fixing	Rail type/Tie type	Main body: strap type/alloy sheet Probe: bolt type/strap type	Open snap type
Application	Joints in high or low voltage switchgears	Joints in low voltage switchgears	Electrical connection points inside high and low voltage cabinets	6~29mm cable diameter

Transceiver



ATC600 wireless temperature measurement transceiver

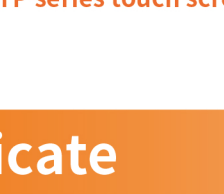
- Model: C: Receiver; Z: Repeater; M: Receiver
- Power supply: AC/DC85V-264V or DC12~48V
- Uplink data: RS485, Modbus-RTU
- ATC600-C can receive 240 ATE400, ACE100
- ATC600-Z: The LORA relay is forwarded to ATC600-C, and the forwarding distance can reach 1000 meters;
- ATC600-M can receive 240 ATE300M, ATE210
- Installation: 35mm Din rail installation

Displays



ARTM-PN wireless temperature measuring equipment

- Panel: 96*96*17mm, depth: 65mm
- Cut-Out Size: 92*92mm
- Power supply: AC85-265V or DC100-300V
- Uplink data: RS485, Modbus-RTU
- Receive up to 60 ATE400
- Electrical parameter measurement



ATP series touch screen

- Panel: 226.5*163*6mm (ATP007); 274*193*6mm (ATP010)
- Cut-Out Size: 215*152mm (ATP007); 261*180mm (ATP010)
- Power supply: DC24V
- Uplink data: RS485, Ethernet
- Donwlink data: RS485
- Connect 1 ATC600

Certificate



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