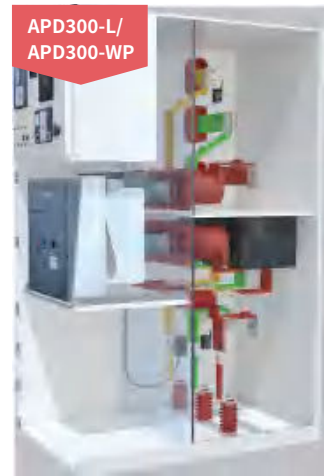


APD series

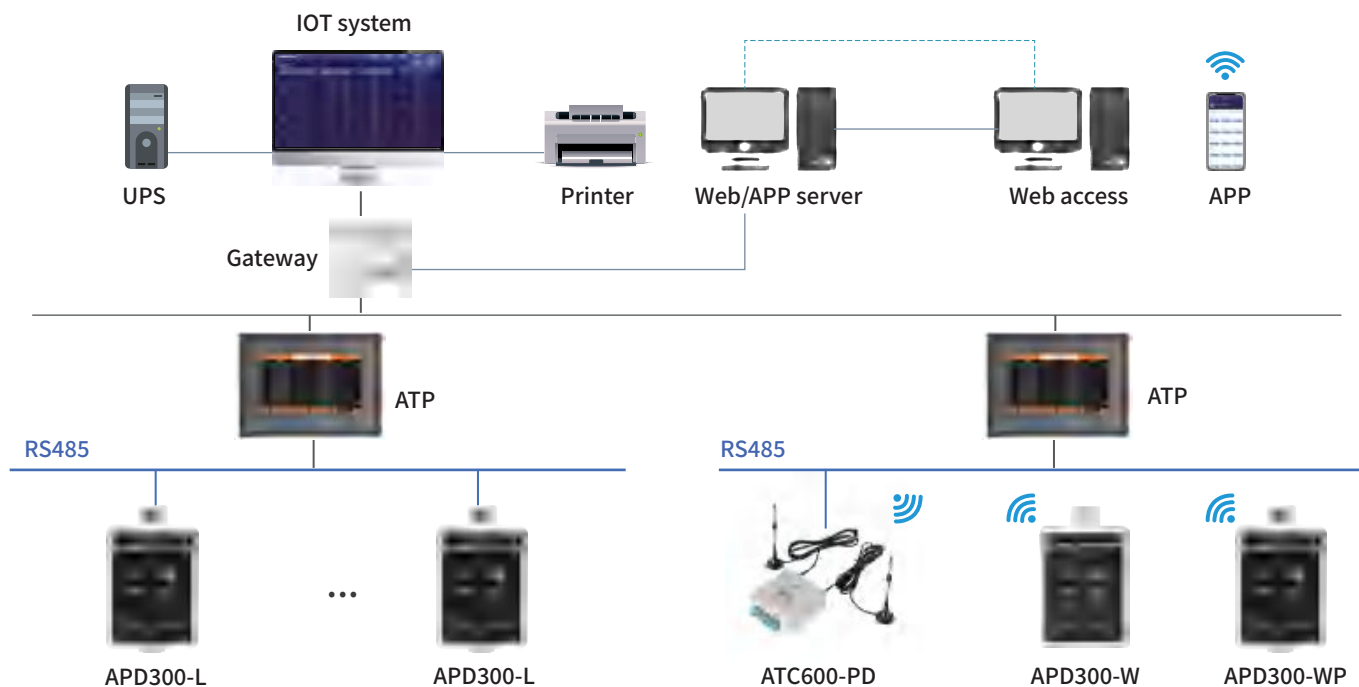
Partial Discharge Detector

Product Introduction

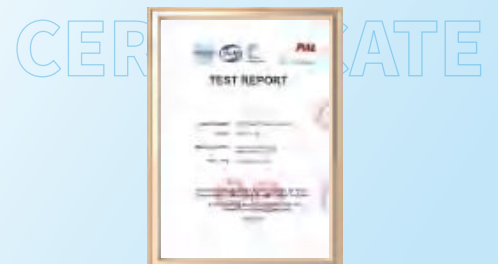
The APD series medium-voltage switchgear partial discharge monitoring device monitors partial discharge signals during the operation of electrical equipment through ultra-high frequency sensors, ground wave sensors, and ultrasonic sensors, thereby determining whether there are insulation risks inside medium-voltage electrical equipment and providing early warning.



Solution



HMI	scheme
ATP007/010	1 ATC600-PD ← 40 APD300-W or APD300-WP + 240 ATE400
ATP007/010	20 APD300-L



Technical Features

Parameters			Type	APD300-L	APD300-W	APD300-WP
Power				DC 12-36V	Battery	DC 12-36V
Battery life				--	3-4years, replaceable	--
Communication				RS485 (MODBUS-RTU)	LORA (506.5Mhz)	LORA (506.5Mhz)
Sampling				4s	2h	15s
PD monitoring sensors	AE	Measuring range	0~60dBμV			
		Resonant frequency	40kHz±1kHz			
	TEV	Measuring range	0~60dBmV			
		Bandwidth	3MHz~100MHz			
	UHF	Measuring range	-70~10dBm			
		Bandwidth	300MHz~1500MHz			
		Average equivalent height	≥10mm			
	Environment	Noise measuring range	30dB~130dB			
		Temp measuring range	-40℃~85℃			
		Humidity measuring range	0~100%RH			
Usage environment		Temperature	-40℃~85℃			
		Relative humidity	≤95%RH			
Size		Terminal form factor	135mm*100mm*42mm			
Installation		Installation	Magnetic			

Transceiver



measurement transceiver

- **Power supply:** AC 85-265V/DC 100-300V or DC12~48V;
- **Uplink data:** RS485, Modbus-RTU
ATC600-PD can receive 40 APD300-W or APD300-WP;
- **Relay output:** 2 circuit normally open relay, 5A/AC250V, 5A/DC30V;
- **Installation:** 35mm guide rail installation.



ATP series HMI

- **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;
- **Downlink data:** RS485;
- **Connect** 1 ATC600-PD or 20 APD300-L.

Installation and Dimensions



APD300-L Back View



APD300-W Back View



APD300-WP Back View



APD300-L / APD300-WP Dimensional



APD300-W Dimensional

