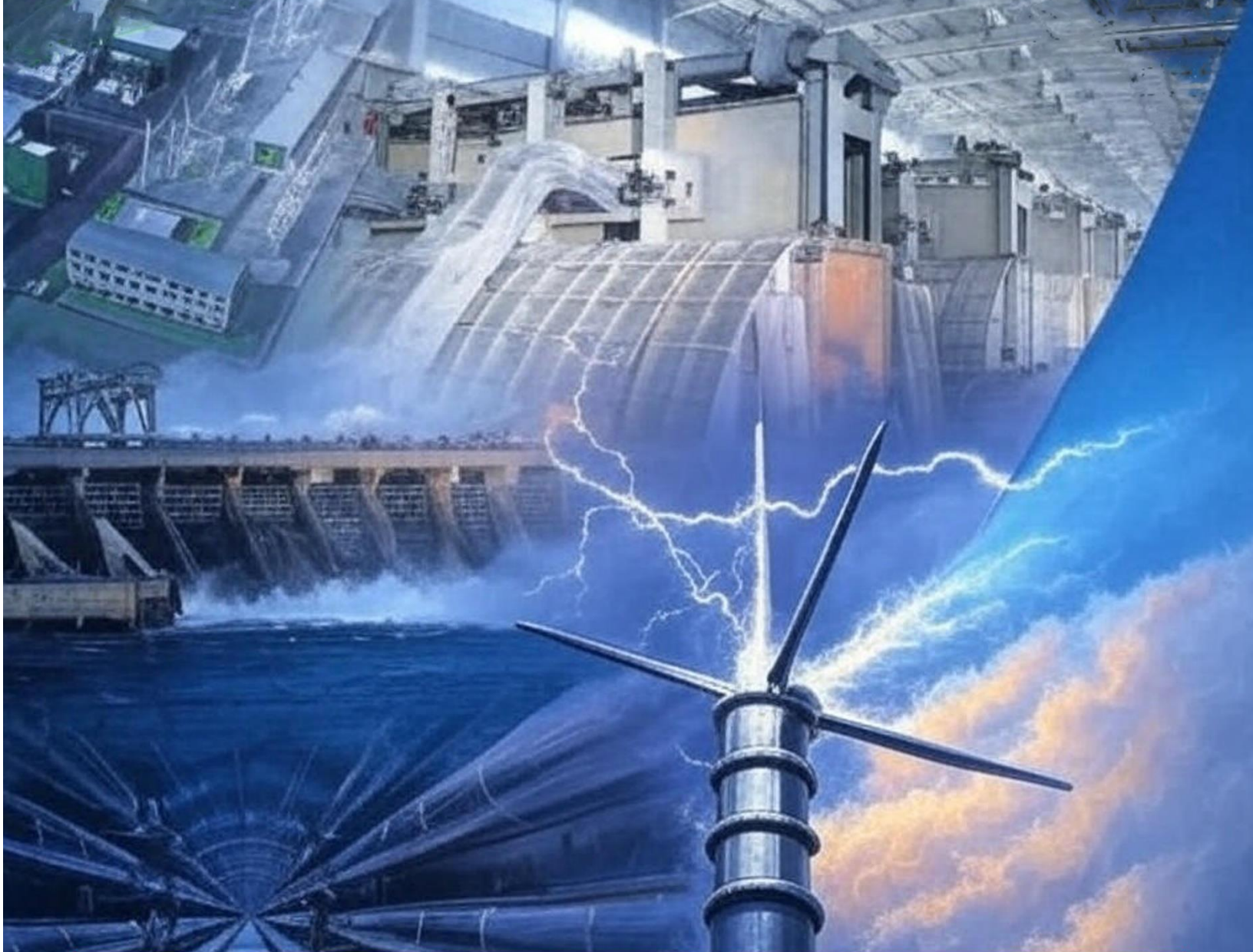




Product Description

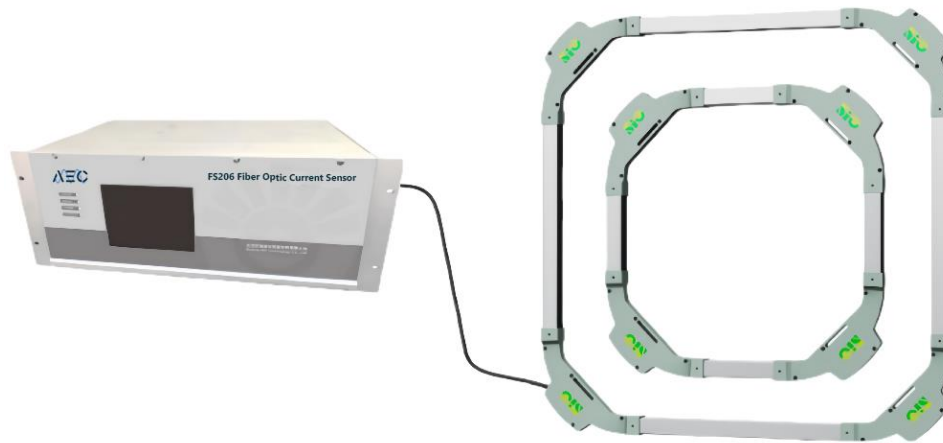
Fiber Optic Current Sensor Series

FS206 Fiber Optic Current Sensor





FS206 Fiber Optic Current Sensor



Introduction

The FS206 is an integrated solution that offers simultaneous measurement on up to five channels. It features both fixed and flexible sensor heads, making it versatile for installation either temporarily or permanent on the busbar. This sensor is particularly applicable in scenarios with limited space and multiple measurement points, providing a reliable and flexible solution for current measurement in various applications.

Key Features

Immunity to Stray Magnetic Fields, High Integration, Convenient Maintenance, Versatile Application

Application area

The FS206 is commonly used in power grids, renewable energy installations, metal smelting, and other scenarios that require precise and reliable AC or/and DC current measurement.



Technical Indicators	
Full-scale rated current (I_r)	up to $\pm 300\text{kA}$
Overcurrent capacity	20%
Max. measurement current	$\pm 360\text{kA}$ (Including overcurrent)
Bandwidth (-3dB)	3kHz
Response Time	300ms
Accuracy (10% to 120% I_r)	$\pm 0.2\%$
Linearity (10% to 120% I_r)	$\pm 0.1\%$
Repeatability	$\pm 0.05\%$
Temperature sensitivity	$< \pm 0.002\%/^{\circ}\text{C}$
Sensor Outputs	
Analog outputs of I_r (unipolar)	0..20 mA and 0..10V or 4..20 mA and 2..10V
Analog outputs of I_r (bipolar)	$\pm 20\text{mA}$ and $\pm 10\text{V}$
Bus communication	Modbus RTU
Relays	1 Changeover contact per channel for alarms / trip signaling (optional)
Ambient Conditions	
Sensor head temperature range	0°C to $+80^{\circ}\text{C}$
Secondary converter temperature rang	-5°C to $+55^{\circ}\text{C}$
System storage temperature range	-30°C to $+70^{\circ}\text{C}$
Relative humidity	5% to 90%
Altitude	$< 4000\text{m}$
Power Supply	



Operation power	AC 100V~240V 50Hz/60Hz DC 110V~240V
Power consumption	Less than 10W per each channel (50W for 5-channel system configuration)
Ingress Protection Class	
Sensing ring weight	<15kg
Sensor fiber length	15/20/30/45/70/100m
Physical Features	
Secondary converter dimensions (W×H×D)	483mm×177mm×291mm
Sensor head	O0/O1/O2/O3
Sensor head weight	Size dependent, less than 15kg
Sensor fiber length	15m/20m/30m/45m/70m/100m