Product Description

Fiber Optic Current Sensor Series

FS201 Fiber Optic Current Measurement Unit

ATRAK ENERGY GOSTAR ARAS

FS201 Fiber Optic Current Measurement Unit

Introduction

FS201 is a high reliability current transformer based on Faraday magneto-optical effect and Ampere loop theorem. Compared with the traditional electromagnetic current transformer, it has the advantages of no magnetic saturation phenomenon, can measure DC current, large dynamic range, wide measurement band, excellent insulation performance, strong resistance to electromagnetic interference and light weight. The sensor supports digital and analogue signal output, easy to network integration.

Key Features

Strong resistance to electromagnetic interference, wide measurement bandwidth, large measurement dynamic range, good insulation performance, intelligent self-diagnosis

Application area

It is mainly applied to UHV DC transmission, flexible DC transmission, DC distribution network, intelligent substation.

Technical Indicators	
Voltage level	10kV~1100kV
Rated current	10～6000A
Measuring bandwidth	DC～1.5/3/7kHz
Response time	40/100/200us
Accuracy	0.2, 5P30 (5TPE)
Measuring channel	1 ~6 (4U 19-inch chassis)
Output refreshing rate	Up to 100ksps digital, 1Msps analogue
Output	Digital FT3, analogue ±5V/±10V and 4～20 mA
Operating temperature	Primary sensing ring-45℃~+85℃ Secondary collector -40℃~+70℃
Power supply	AC/DC 110/220V
Sensing ring size	200～645mm (O.D.) × 12mm (thickness)
Power consumption	≤30W