



## Product Description

# Fiber Optic Current Sensor Series

FS207 Fiber Optic Current Meter







## FS207 Fiber Optic Current Meter



### Introduction

FS207 Fiber Optic Current Measuring Instrument is a current measuring instrument based on Faraday's magneto-optical effect and Ampere loop theorem. It adopts miniaturized packaging technology to realize the miniaturization and portability of the product, supports analog input function, and the flexible sensing ring surrounds the measured conductor, which can realize the rapid measurement of current and online calibration of the sensor

### Key Features

Immunity to stray magnetic fields, easy installation, precise calibration, display function, extensive output interfaces

### Application area

It is suitable for AC and DC fast measurement and calibration in various fields, especially suitable for fast measurement in narrow space, and can be compared with the existing installed sensors to test and calibrate.





Technical Indicators	
Rated current(Ir)	0.1/0.2/0.5/1/2/5/10/20/50/100/200/400/600/800 kA
Maximum range	120% Ir
Measurement accuracy (10%~120%Ir)	≤0.2%
Linearity (10%~120%Ir)	≤0.1%
bandwidths	0~3kHz/30kHz
Response time	300us/30us
Numeric display refresh frequency	3Hz
Sensor Fiber Optic Cable	
Sensor fiber length	3/6/9/12/20/30m
Transmission fiber length	5/10/15/30m
Cable diameter	5mm
Fiber optic cable voltage resistance	2kV
Minimum bending radius	160mm
Maximum tensile strength	100N
Output Methods	
One digital fiber optic output	FT3 (10/50/100ksps)
One digital RS485 output	Modbus-RTU (3sps)
One analog voltage output	±5V/±10V
One analog current output	4~12~20mA
Analog Output Terminal	5.08mm Phoenix Terminal
Input methods (Version B)	
Analog voltage input	±10V





Analog input terminal	BNC
<b>Environmental conditions</b>	
Sensor ring operating temperature	-10°C~+60°C
Collector operating temperature	-5°C~+55°C
Storage temperature	-40°C~+70°C
Protection grade	IP30
Humidity	5%~95%
Altitude	<4000m
<b>Power supply</b>	
Operating power	12V DC
Power consumption	<10W
<b>Physical Size</b>	
Collector size (W×H×D)	157mm×40mm×190mm
Collector weight	≤3kg
Collector screen size (Version B )	1.3inch (30mm×15mm)