



## Product Description

# Fiber Optic Current Sensor Series

FS209 Hand-held Fiber Optic Current Meter





## FS209 Hand-held Fiber Optic Current Meter



### Introduction

The FS209 hand-held fiber optic current meter is an ultraportable and very flexible fiber optic current measurement system. The instrument utilizes world-class knowledge of the integrated technology for optoelectronics to offer unprecedented miniaturization and portability. FS209's flexible sensing cable can be wrapped around any current-carrying busbar to achieve quick and accurate current measurement.

### Key Features

Resistant to stray magnetic field interference, portable measurement, flexible sensing ring, human-computer interaction

### Application area

- Electrolyzer cathode steel rods and anode guide rods status monitoring, fault diagnosis
- Rectifier cabinet output current
- Generator set output characteristic test
- Magnetic particle flaw detector output current calibration
- Welding machine output current calibration



Technical Indicators	
Rated current(Ir)	10/20/50/100/200/400/600/800kA
Maximum range	120% Ir
Measuring accuracy	≤0.5%
Linearity	≤0.2%
Bandwidth (analog output)	0~3kHz
Response time (analog output)	≤300us
Integration time (numerical display)	1~10s (optional)
Sensing cable length	3m/6m/9m/12m
Sensing cable diameter	8mm
Sensing fiber optic cable withstand voltage	2kV
Minimum bending radius of sensing fiber optic cable	115mm
Analog output (rated)	±5V/±10V
Data interface	USB-C
Number of data records	10000
Sensing ring operating temperature	-10°C~+85°C
Host operating temperature	-10°C~+45°C
Protection grade	IP50
Battery capacity	16500mAh 3.6V 60wh
Standby time	≥ 8 hours
Charging interface	USB-C



Host size	225mm×86mm×85mm
Weight	1kg
Screen size	5inch (110mm×62mm)