

Portable Fiber Optic Current Meter

0.1 to 800 kA



The OFCS fiber optic current sensor features a non-metallic construction, making it ideally suited for EMS environments. It offers a compact, portable design and ease of operation as a practical current measurement solution. The sensor supports analog input functionality, and its flexible sensing element can be wrapped around the conductor under test, enabling real-time current monitoring along with rapid measurement and online calibration. It is suitable for fast AC and DC current measurements across a wide range of applications and can be compared and calibrated with existing installed sensors to improve equipment reliability and operational efficiency. Its compact form factor allows easy integration with other systems, while the analog input capability supports calibration and benchmarking against other sensors, making it particularly well suited for scientific research applications.

Features

- Immunity to Stray Magnetic Fields
- Easy to Install
- Precise Calibration
- Display Function
- Rich Output Interfaces

Specifications

Parameter	Min	Typical	Max	Unit
Rated Current (I _r)	0.1/0.2/0.5/1/2/5/10/20/50/100/200/400/600/800			kA
Maximum Range			120	% I _r
Measurement Accuracy (10%~120%I _r)		≤ 0.2		%
Linearity (10%~120%I _r)		≤ 0.2		%
Bandwidth		0~3 / 30		kHz
Response Time		300 / 30		μs
Numerical Display Refresh Rate		3		Hz
Sensor Cable Length		3/6/9/12/20/30		m
Transmission Cable Length,		5/10/15/30		m
Cable Diameter		5		mm
Optical Cable Withstand Voltage		2		kV
Minimum Bending Radius		160		mm
Maximum Tensile strength		100		N
One Digital Fiber Optic Output		FT3 (10/50/100 kbps)		
One Number RS485 Output		Modbus- RTU (3sps)		
One Analog Voltage Output		±5 / ±10		V
One Analog Current Output		4 ~ 12 ~ 20		mA
Analog Output Terminals		5.08mm Phoenix Terminal		
Analog Voltage Input		±10		V
Analog Input Terminals		BNC		
Sensor Ring Operating Temperature	-10		+60	°C
Data Logger Operating Temperature	-5		+55	°C
Storage Temperature	-40		+70	°C
Humidity	5		95	%

Applications

- Research
- Experimentation and Calibration



Note: The specifications provided are for general applications with a cost-effective approach. If you need to narrow or expand the tolerance, coverage, limit, or qualifications, please [click this link](#):

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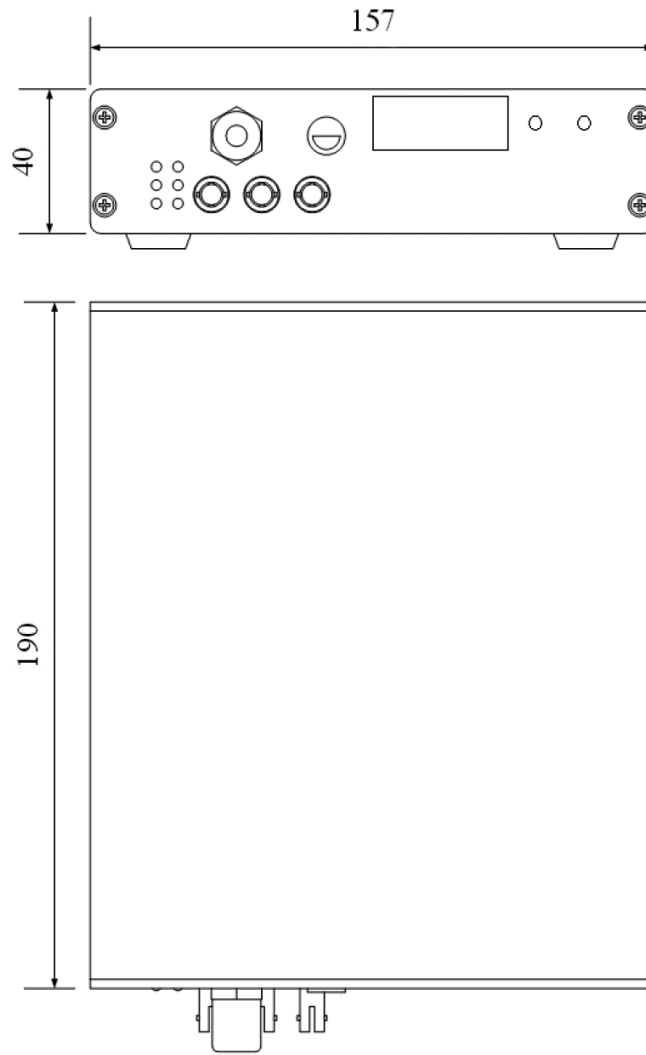
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DATASHEET

Mechanical Dimensions (mm)



*Product dimensions may change without notice. This is sometimes required for non-standard specifications.

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Ordering Information (Part Number)

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Prefix	Max Current	Accuracy	Sensor Cable Length	Transmission Cable Length
OFCS-	0.1 kA = 0001 800 kA = 8000	Standard = 1 High = 2	3 m = 03 30 m =30	3 m = 03 30 m =30