











Visit the QI-HSC-50 | QI-HSC-100 | QI-HSC-104-2000I page for news, updates and downloads

CONTENTS

Product overview	3
Technical specifications	4
Electrical charateristics	4
Output signals and connections	5

PRODUCT MANUAL





SAFETY WARNINGS AND CAUTIONS

The following warnings and cautions must be observed to ensure personal safety and prevent damage.



Death or serious injury may result from failure to heed this warning.



It is necessary to comply with national regulations when installing and picking materials for power lines.



Material damage or serious personal injury may result from failure to heed this warning.



Repairs and modifications must be carried out only by the manufacturer. It is forbidden to open the case and make any changes to the device. Tampering with the device will invalidate the warranty.



The manufacturer **declines all responsibility** for electrical safety in the event of improper use of the equipment.

It is essential to read the entire contents of this manual before



The product described in this document may only be used for the specified application. The maximum performance data and environmental conditions specified in the product data sheet must be observed. Proper transport and storage, as well as professional assembly, installation, handling and maintenance



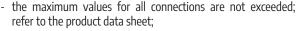
Installation and commissioning must be carried out by qualified personnel only.

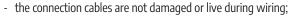
are required for the correct and safe operation of the device. Use under ambient conditions other than those specified, application of signals or voltages other than those specified, may cause significant deviations from the specified measurement tolerances, which may be irreversible.



carrying out any work.









During installation, ensure that a switch or circuit-breaker is near the product and easily accessible.

The unit must be uninstalled if safe operation can no longer be guaranteed (e.g. visible damage). Disconnect all connections in this case. The unit should be returned to the manufacturer or to an authorised service centre for repair.



Although the contents of this document have been checked for accuracy, it may contain errors or inconsistencies and we cannot quarantee its completeness or accuracy.



This document is subject to periodic revision and updating. QEED reserves the right to make changes to the product and/ or its technical documentation at any time in the interests of continuous quality improvement. Always consult the latest version of the documentation available on the website:



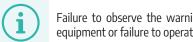
WARNING: High-intensity magnetic fields may alter the values measured by the transformer. Avoid installation near: permanent magnets, electromagnets, or iron masses. If irregularities are detected, reposition or move the unit to a more suitable location.



technical@geed.it

purchased the product.

If you find any errors or missing information in this document, please notify us by e-mail to:

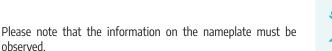




Failure to observe the warnings may result in damage to the equipment or failure to operate as intended.



Disposal of waste electrical and electronic equipment (applicable in the European Union and other countries with separate collection). The symbol on the product or its packaging indicates that the product should not be treated as household waste. Instead, it will be handed over to an authorised collection point for the recycling of electrical and electronic waste. Ensuring that the product is disposed of properly will prevent potential negative effects on the environment and human health, which could otherwise be caused by inappropriate waste management of the product. Recycling materials helps to conserve natural resources. For further information, please contact your local authority, waste disposal service or the retailer from whom you



PRODUCT MANUAL

PRODUCT OVERVIEW

The QI-HSC series are open-core current sensors for measuring DC and AC currents with excellent accuracy and a wide measuring range.

The QI-HSC-xxx uses open-loop Hall-effect measurement technology and an openable core, making the sensors easy to install without disconnecting conductors. Screw terminals make installation extremely easy. The sensors are available in a range of sizes and primary current ratings and can provide either voltage or current output signals.

The direction of current flow is indicated with an arrow at the top of the product.

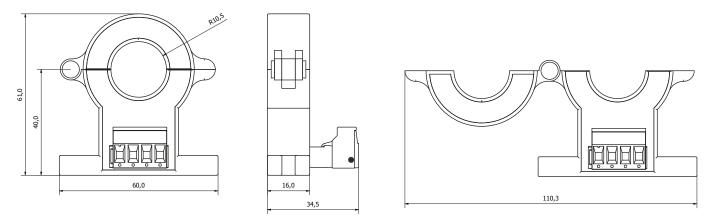


Figure 1: QI-HSC-50/QI-HSC-100 dimensions

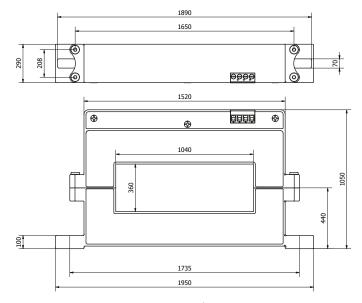


Figure 2: QI-HSC-104-200-I dimensions



PRODUCT MANUAL





TECHNICAL SPECIFICATIONS

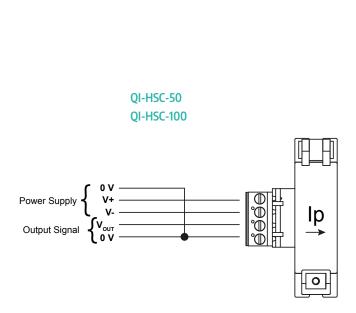
Electrical charateristics

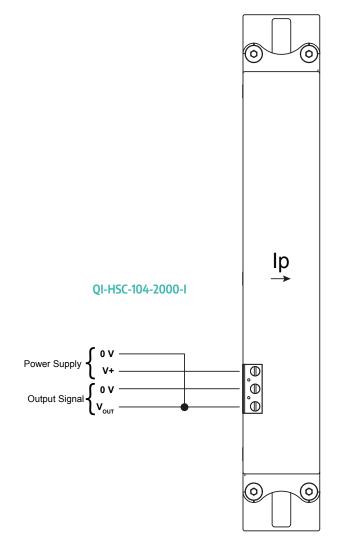
	QI-HSC-50	QI-HSC-100	QI-HSC-104-2000-I
Rated current	50 A AC/DC	100 A AC/DC	± 2000 A
Auxiliary power supply	± 12 15 V dc		24 Vdc
Working frequency	from Continuous up to 20 kHz		
Load resistance	Min 10 kΩ		max 500 Ω
Current consumption @ 15 V dc	25mA		
Output voltage ② rated voltage I _P =0	± 25 mV		1
Output voltage ② rated voltage Ipn	± 4 V ±1%		I
Output current @ rated current l _P =0	1		4 mA
Output current (a) rated current Ipn	I		20 mA ±1%
Measurement accuracy	± 1%		
Linearity	< 1%		
Thermal drift	±1mV/°C		± 0,001 mA/°C
Measurement response time 0 – 90%	10 µs		50 ms
Primary/secondary insulation voltage	3 kV		5 kV
Working temperature	-25°C85°C		
Storage temperature	-40°C100°C		-40°C125°C
Connection	Removable connector for cable section 0,2 ÷ 2,5 mm ²		
Weight	80 g		960 g



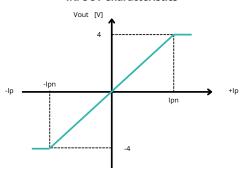


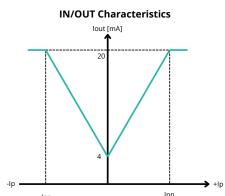
Output signals and connections





IN/OUT Characteristics





PRODUCT MANUAL



D.E.M. SpA

Zona Ind. Villanova 20 32013 Longarone (BL) ITALIA

www.dem-it.com www.qeed.it

As standards, specifications, and design change from time to time, please ask for confirmation of the information given in this publication.