

Electrical Conductivity Sensor, 4-20mA, RS485, M39x1.5, 5m cable



## SRWQ100-EC103-8801 Electrical Conductivity Sensor

### Features

- PPT housing
- M39 X 1.5 process connection
- 4-20mA & RS485 outputs
- 5m direct lead cable

### Applications

- Water treatment
- Tap water
- Surface water
- Industrial water
- desalination plants
- Cooling towers and boilers

### Description

The L-com SRWQ100-EC103 series is a water quality sensor used to measure the electrical conductivity of water. This measure is directly correlated the amount of impurities in the water. These may be chemicals or other dissolved substances which may of concern, such as in industrial waste water treatment. Such water may show higher conductivity than expected, indicating the water may contain a pollutant harmful to the environment. The SRWQ100-EC103 electrical conductivity sensor will help maintain acceptable water quality levels. The L-com SRWQ100-EC103 series is part of the IoT portfolio of products available from L-com, in-stock and ready to ship. Contact our knowledgeable technical support and sales staff for more information on this, and other IoT products from L-com.

### General Specifications

Application:	Electrical Conductivity Sensor
Electrical Connection:	flying leads
Process Connection:	M39x1.5
Output Signal:	4-20mA
Cable Length:	5 m
Sensing Element:	Platinum electrode
Interface Protocol (Communication):	RS485 (MODBUS-RTU)



Description	Minimum	Typical	Maximum	Unit
Accuracy (Temperature)		±0.3		deg C
Resolution (Temperature)		0.1		deg C
Accuracy Conductivity		±1		uS
Resolution Conductivity		±1		%
Conductivity Measurement	1		2,000	uS/cm
Temperature	0		60	deg C
Compensated Temperature	0		60	deg C

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:  
[Electrical Conductivity Sensor, 4-20mA, RS485, M39x1.5, 5m cable SRWQ100-EC103-8801](#)

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**SRWQ100-EC103-8801**  
**Electrical Conductivity Sensor**

**Electrical Specifications**

Description	Minimum	Typical	Maximum	Unit
Power Supply Voltage	10	24	30	VDC

Notes: Electrical Conductivity:4-20mA & RS485 Temp:RS485

**Material Specifications**

Description	Material
Cable Material	PVC
Housing Material	PBT

**Environmental Specifications**

Temperature (Operating)	0deg C to 80deg C
Temperature (Storage)	-20deg C to 85deg C
Humidity	<90%
Ingress Protection	IP68

**Certifications**

CE Compliant

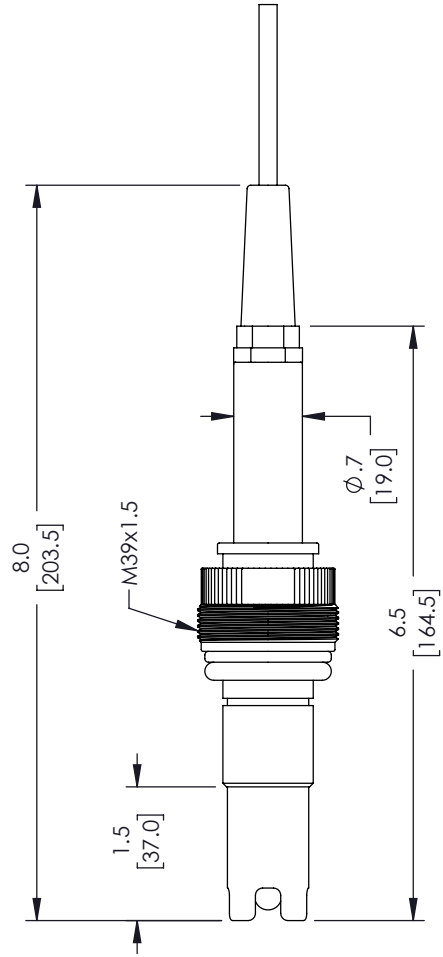
The Infinite Electronics portfolio includes coaxial cable assemblies, connectors, adapters and custom products, as well as our wireless product line which includes antennas, RF amplifiers, lightning and surge protectors, and NEMA rated enclosures.

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. L-com reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. L-com does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and L-com does not assume any liability arising out of the use of any part or documentation.

# SRWQ100-EC103-8801 CAD Drawing

Electrical Conductivity Sensor, 4-20mA, RS485, M39x1.5, 5m cable

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	3/29/22	THOUGHTON



**NOTES:**  
 1. COMPONENT SHALL BE INDIVIDUALLY PACKAGED IN ACCORDANCE WITH L-COM SPECIFICATION PS-0031.

**REGULATORY COMPLIANCE:**  
 EU RoHS DIRECTIVE (MOST RECENT RELEASED VERSION)

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

<p><b>L-com</b><sup>TM</sup>  <b>an INFINIT@ brand</b>                  50 High Street, West Mill, 3rd Floor, Suite #30                  North Andover, MA 01845 USA                  Phone: 1.800.341.5266   1.978.682.6936                  Fax: 1.978.689.9484                  Website: www.L-com.com                  E-mail: CustomerService@L-com.com</p>	<p>THIRD-ANGLE PROJECTION</p> <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF L-COM GLOBAL CONNECTIVITY. ALL RIGHTS RESERVED.</p> <p>SHEET 1 OF 1</p> <p>SCALE N/A</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS</td> </tr> <tr> <td>TOLERANCES:</td> </tr> <tr> <td>X = ± .2 [5.08]    FRACTIONS ± .102 [2.59]</td> </tr> <tr> <td>XX = ± .02 [51]    ANGLES ± 1°</td> </tr> <tr> <td>XXX = ± .005 [13]</td> </tr> <tr> <td>CABLE LENGTH (L) TOLERANCES:</td> </tr> <tr> <td>L ≤ 12 [305] &lt; L ≤ 60 [1524] = +1 [25] / -0</td> </tr> <tr> <td>60 [1524] &lt; L ≤ 120 [3048] = +4 [102] / -0</td> </tr> <tr> <td>120 [3048] &lt; L ≤ 300 [7620] = +6 [152] / -0</td> </tr> <tr> <td>300 [7620] &lt; L = +5% / -0</td> </tr> <tr> <td>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</td> </tr> </table>	UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS	TOLERANCES:	X = ± .2 [5.08]    FRACTIONS ± .102 [2.59]	XX = ± .02 [51]    ANGLES ± 1°	XXX = ± .005 [13]	CABLE LENGTH (L) TOLERANCES:	L ≤ 12 [305] < L ≤ 60 [1524] = +1 [25] / -0	60 [1524] < L ≤ 120 [3048] = +4 [102] / -0	120 [3048] < L ≤ 300 [7620] = +6 [152] / -0	300 [7620] < L = +5% / -0	ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.					
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