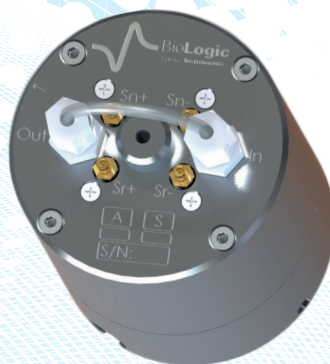


CESH

Controlled Environment Sample Holder

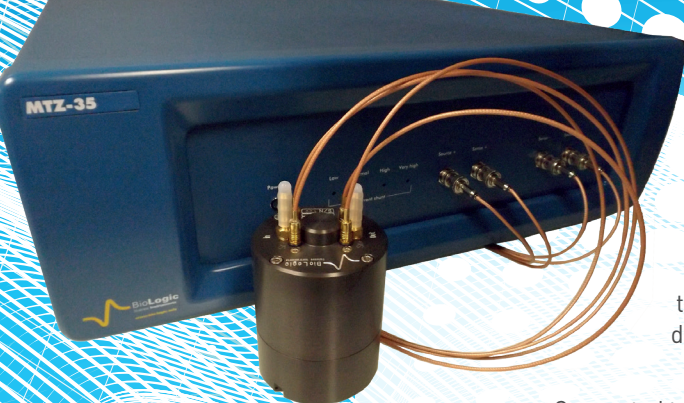


- Material testing sample holder
- Impedance spectroscopy
- -40 °C to +150 °C compatible
- Controlled atmosphere ready
- Multiple electrode options
- 4 points measurements



APPLICATIONS

- Ceramics
- Sensors
- Polymers
- Nano materials
- Solar/Photovoltaic cells
- Rubbers
- Glues
- Epoxies

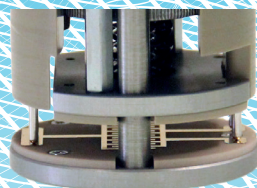


The **Controlled Environment Sample Holder (CESH)** has been designed for users who want to perform material **impedance spectroscopy** at various temperature. CESH can be used in any temperature control unit between **-40 °C to +150 °C**. The user has the ability to **inert the sample** as the sample holder is gas tight and designed for gas flow if needed.

Connected to a MTZ-35 or other Frequency analyzer instrument like the SP-300, it delivers a compact solution for material analysis.

Two different models of sample holder are available :

- Surface - or in-plane - impedance measurement
- Bulk - or through-plane - impedance measurement



The Surface Sample Holder is suited for thin or soft samples impedance measurement like **polymers, epoxy or glues**.

Two different type of 4 points coplanar electrodes are supplied:

- a standard electrode set ⁽¹⁾
- an interdigitated electrode set ⁽²⁾



(1)



(2)

The Bulk Sample Holder is suited for solid samples impedance measurement like **ceramics, solar cells or thick polymers**.

Three different sizes of 4 points parallel electrodes are available:

- 1 inch ⁽¹⁾
- 1/2 inch ⁽²⁾
- 1/4 inch ⁽³⁾

Note: Electrodes can be ordered separately.



(1)

(2)

(3)

The **Controlled Environment Sample Holder (CESH)** is delivered with a base for optimal storage and sample preparation.



Opened CESH on its base

SPECIFICATIONS

Dimensions	D 80 x H 94 mm [121.90 clearance]
Temperature range	-40 °C to +150 °C
HF connections	SMB - 4 points
Gaz inlet / outlet	ID 02 mm / OD 04 mm
Frequency range	DC to 35 MHz
DC range	±50 V

Electrode material	Gold plated
Electrode baseplate	D 47 mm
Sample thickness	5 mm max
Current max	1 A
Ordering information	Surface Sample Holder 097-150/1
	Bulk Sample Holder 097-150/2



Headquarters
Bio-Logic SAS
 1, rue de l'Europe
 38640 Claix - France
 Phone: +33 476 98 68 31
 Fax: +33 476 98 69 09

Affiliate offices
USA: Bio-Logic USA, LLC
 Phone: +1 865 769 3800
India: Bio-Logic Science Instruments Pvt. Ltd.
 Phone: +91 2225842128

www.bio-logic.info