

# Cryo-Stic



Cryo-Stic is used as a direct replacement for mechanical float gauges. Provides continuous and accurate measurement than mechanical or pressure devices within +/-1% (over full scale). The thermal barrier helps prevent influence of cold temperatures on electronics.

## Cryo-Stic

The C-Stic is a very robust level meter specially for storage of liquified gases, like nitrogen, oxygen, argon, carbon dioxide and nitrous oxide. It provides an easy to mount, accurate and reliable liquid level digital reading. Cryo-Stic measures the capacitance of the sensor. i.e dielectric properties of the liquified gas between two stainless steel electrodes. These electrodes produces signal to sensor head, which in turn converts level signal to digital data. Level data is communicated to a gauge mounted directly on sensor, or remotely attached via cable. Designs also available for LNG, cryofreezer, LPG. Also, containers can be transported without gauge in place. This reduces chances of damage which prolongs life of product.

All Cryo-Stics come with CSM renowned customer service, from conceptual design to implementation



## Typical Applications

- For cryogenic liquid storage tanks
- For liquid petroleum gas
- Cryofreezer

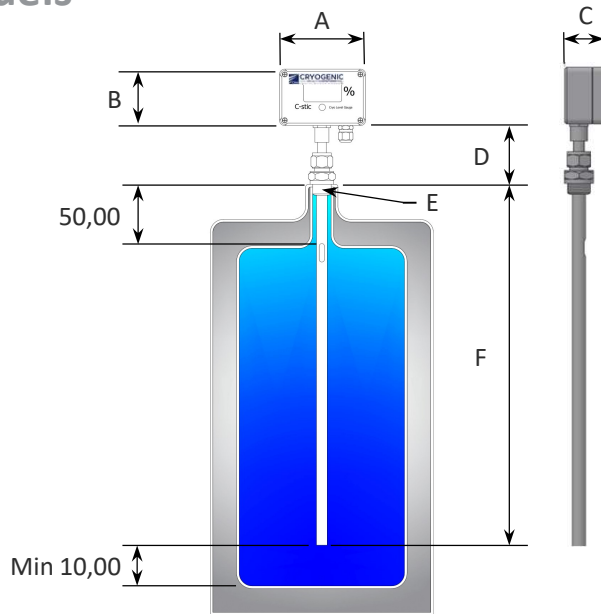
## Features and Benefits

- Accurate measurements improves overall system efficiency.
- Higher flexibility than a thermal device, enables continuous measurement of liquid level
- Remote monitoring options for data acquisition
- No moving parts enhances reliability and durability, thus preventing unnecessary damage to Cryo-Stic device.
- Flexible gauge mounting options, can be mounted directly on sensor or remotely attached via cable.

# Cryo-Stic Specifications

<b>Cryo-Stic Model</b>	<b>CLG-1</b>
Enclosure Material	Polycarbonate (PC) or Aluminum
Sensor Probe Material	Stainless Steel Series 300
Components	Level Gauge
Display	3-digit LCD (in % full)
Power	Battery or external 24 VDC
Voltage/ Amp	4 – 20mA / 0 – 5V output
Power Connection	9 pin connector
Communication	Continuous Reading Optical and Acoustic Alarms LED Status Indicators
Gauge Temperature	Operating gauge: -20 to 60 Deg. Celsius
Mounting	Directly on sensor or wall mount by cable
Standard Testing	Functional Test

## Cryo-Stic Models



Part No.	Probe Length (F)	Connection Size (E) *	Probe Length (D)	Display Dimension (A x B x C)	Minimum Tank Depth	Enclosure Material
CLG-1-530	530 mm	1/2" BSP	77 mm	98 x 64 x 38 mm	540 mm	PC
CLG-1-610	610 mm	1/2" BSP	77 mm	98 x 64 x 38 mm	620 mm	PC
CLG-1-860	860 mm	1/2" BSP	77 mm	98 x 64 x 38 mm	870 mm	PC
CLG-1-1243	1243 mm	1/2" BSP	77 mm	98 x 64 x 38 mm	1253 mm	PC
CLG-1-1000	1000 mm	3/4" – 16 UNF	150 mm	115 x 65 x 30 mm	1010 mm	Aluminum

\*Other sizes (1/2" NPT & 7/8-14 UNF) are available upon request.