

# Specification Datasheet

## Logi-CHROM

Isocratic Pump – Non-Metal



### Logi-CHROM Isocratic Pump, non-metal

<b>Pump Head</b>	10 ml
<b>Pump Head Materials</b>	Ceramic
<b>Flow Rate Range</b>	0.001 - 10 ml / min.
<b>Maximum Delivery Pressure</b>	400 bar, 5800 psi
<b>Wetted Materials</b>	GFP (graphite fibre reinforced PTFE), sapphire, ruby, aluminium oxide (Al <sub>2</sub> O <sub>3</sub> )
<b>Piston Seal Washing</b>	Active wash
<b>Pulsation Compensation</b>	Active pulsation compensation
<b>Mixing Volume</b>	100 µl
<b>Flow Rate Increment</b>	ml / min.
<b>Flow Rate Accuracy</b>	± 1%, measured at 5 - 80% of flow range using ethanol
<b>Flow Rate Precision</b>	< 0.1% RSD based on retention time at constant room temperature
<b>Liquid Temperature Range</b>	4 - 60°C (39.2 - 140°F)
<b>Best Working Conditions</b>	0.1 - 8.0 ml / min.
<b>Continuous Working Conditions</b>	0.1 - 4.0 ml / min.
<b>Flow Rate Accuracy</b>	< 1%
<b>Flow Rate Accuracy Conditions</b>	Measured at 5 - 80% of flow range, using ethanol
<b>Flow Rate Precision</b>	0.1% RSD
<b>Flow Rate Precision Conditions</b>	Based on the retention time at constant room temperature
<b>Gradient Range</b>	0 - 100%

## Communication

<b>Interfaces</b>	LAN, Pin header connectors (Analog IN, Start IN, Error IN)
<b>Control</b>	Laura Software
<b>Analog Inputs</b>	Flow Rate: 0 - 10 V via pin head connectors
<b>Analog Outputs</b>	8 event outputs (TTL, OC, Relays) and 24 V

## General

<b>Power Supply</b>	100 - 240 V; 50 - 60 Hz; Maximum power consumption 100 Watt
<b>Dimensions</b>	361 x 208.2 x 523 mm (W x H x D)
<b>Leak Sensor</b>	Yes
<b>Ambient Conditions</b>	4 - 40°C (39.2 - 104°F) air humidity below 90%, non-condensing

## Degasser (Optional)

<b>Degasser Channels</b>	2 channels, Teflon® AF (dependent on model)
<b>Degasser Maximum Flow Rate</b>	10 ml/min
<b>Degassing Method</b>	Gas permeation through Teflon® AF amorphous fluoropolymer membrane
<b>Degassing Efficiency</b>	< 0.5 ppm dissolved O2 at 1 ml/min
<b>Degassing Chamber Volume</b>	480 µl volume per channel
<b>Solvent Applicability</b>	Universal, with the exception of hydrochloric acid and halogenated hydrocarbons - in particular hexafluoroisopropanol (HFIP)
<b>Wetted Materials</b>	PEEK, Tefzel®, Teflon® AF
<b>Vacuum Chamber</b>	Polypropylene and stainless steel
<b>Vacuum Pump</b>	Low hysteresis behaviour

### Europe & Worldwide

#### LabLogic Systems Limited

Paradigm House, 3 Melbourne Avenue  
Broomhill, Sheffield, S10 2QJ, UK

**E-mail:** solutions@lablogic.com

**Tel:** +44 (0)114 266 7267

**Fax:** +44 (0)114 266 3944

[www.lablogic.com](http://www.lablogic.com)

### USA & Canada

#### LabLogic Systems, Inc.

1911 N US HWY 301, Suite 140  
Tampa, FL 33619, USA

**E-mail:** solutions@lablogic.com

**Tel:** +1-813-626-6848

**Fax:** +1-813-620-3708

[www.lablogic.com](http://www.lablogic.com)

