

nLDM - Nano Liter Dispense Module



Non Contact, Nano-Liter, Dispenser

- Biofabrication / Bioprinting research
 - Tissue Engineering / Regenerative Medicine
 - Customized cell arrays/cell-based assays
 - High-Content Screening
 - Cell culture in Hydrogels
 - GC/MS Sample injection
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- Dispense from < 10nL up to full syringe volumes in a single dispense.
 - Able to dispense fluids with a wide viscosity range,
 - Capable of gentle handling of cells, maintains high cell viability of delicate and robust cells alike.
 - Development software provided offers flexibility and ability to customize.
 - Compact 170mm x 110mm x 60 mm size support integration into liquid handling robots.
 - Configure to provide pulsation free fluid or air flow for microfluidics.

The 3DDispense nLDM gives the user full control over critical dispense parameters such as droplet volume, and dispense velocity.

Remotely control or programmable front panel switches for ease of use provide functions:

Prime:	Prime system from bulk reservoir with reagent or backing fluids.
Aspirate:	Aspirate a given volume via the probe
Dispense:	Dispense single desired volume or multiple dispenses on command.
Purge:	Purge sample and all solutions

The nLDM can be used as standalone or integrated into liquid handling platforms and instrumentation.

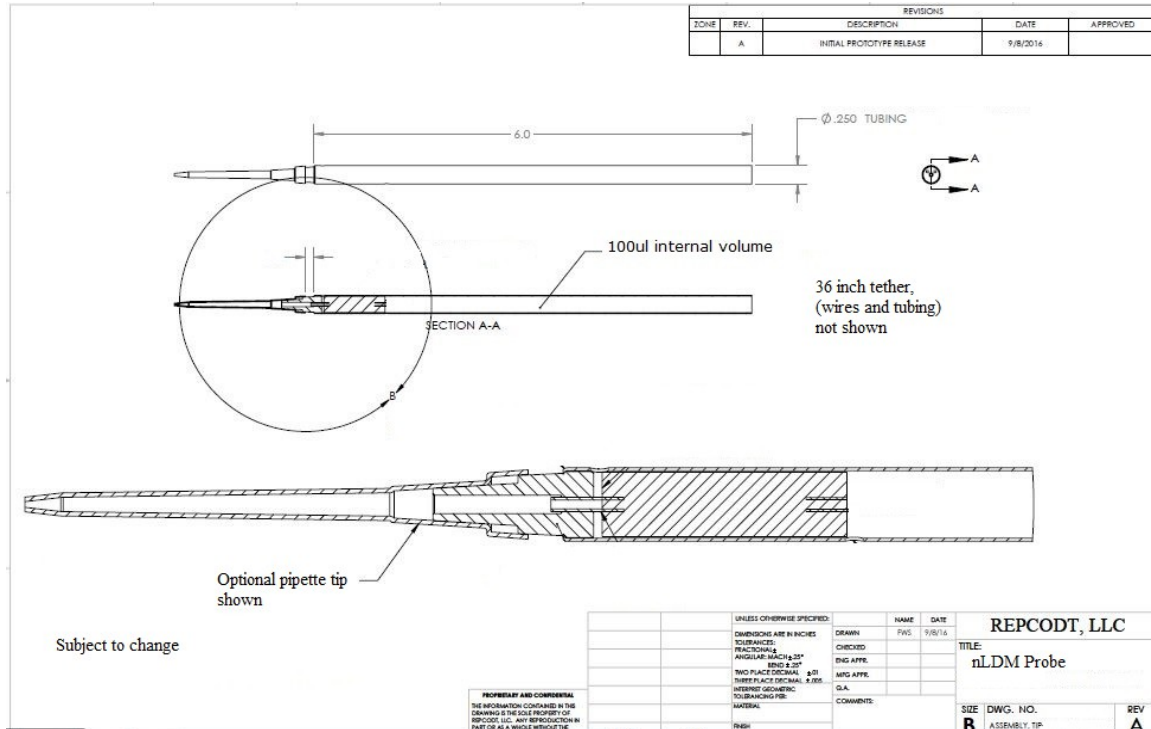
For more information visit

3DDispense.com

Developed by

Repc Development Technologies

nLDM probe Assembly for use with nLDM Nanoliter Dispense module



Test Results using Artel MVS*

ARTEL MVS TEST REPORT

Traceable Results*

Operator: Administrator (admin)
 Liquid Handler Device ID: Repco 1-tip dispenser
 Liquid Handler Device Description: ALH service
 Layout ID: 1tip 384w 30nL cols 18-24
 Layout Description: ALH service
 Channels: 1
 Plate Description: 384-well MVS Verification Plate
 Dispense Direction: Top to Bottom
 Liquid Handler Device Setup Notes: run 02, no tip

Target volume (µL)	0.02
Target solution	Range E
Number of data points per channel	16
Mean volume for all channels (µL)	0.02025
Standard deviation for all channels (µL)	0.00037
Coefficient of variation (CV) for all channels	1.83%

Group 1 Well Volumes (µL)

Well	Volume (µL)
A	0.0203
B	0.0202
C	0.0197
D	0.0201
E	0.0202
F	0.0195
G	0.0206
H	0.0204
I	0.0201
J	0.0200
K	0.0207
L	0.0209
M	0.0205
N	0.0199
O	0.0203
P	0.0206

*tests performed with Artel Test solutions. Individual results may vary

<http://www.artel-usa.com/products-and-services/mvs>

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