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DropLab Information Sheet

Who we are:

DropLab is a Microfluidics Development and Manufacturing Company, dedicated to creating state of the art microfluidic systems for collection of data in laboratory, clinical, point of care and environmental settings. We can quickly create proof of concept prototypes that we can then mass manufacture. By automating and miniaturizing laboratory protocols, our systems allow for better and faster data collection. DropLab enables partners to quickly bring their product to market faster at lower R&D cost.

What we do:

We work closely with clients to understand their needs and create a device that is able to run the required assays that generate the desired data. We design both the microfluidic chips, and the control systems required to run them in a way that can be rapidly prototyped before scaling up manufacture.

What our advantage is:

We help our clients to de-risk the microfluidic component of their R&D, allowing them to focus on other parts of their business. Partnering with DropLab allows for a significant reduction of costs for two reasons; a) we reduce labour costs associated with designing, prototyping, and manufacturing of the microfluidic systems and, b) we reduce the capital cost required to build a microfluidic manufacturing facility.

Our fast prototyping capabilities provide our clients with proof of concept prototypes, allowing them to better communicate their ideas to clients and investors.



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Modules we recommend:

Component	Specs	Description
Microfluidic Chip	-150µm feature size -PMMA -TPU for air permeability -On chip peristaltic pump	Can be used for a variety of needs such a running assays, mixing, incubation, droplet sorting, etc. Allows for droplet size of 10nm.
Pneumatic Controller	-16 pneumatic actuators -Python interface	Controls pumping of the microfluidic chip peristaltic pumps in addition to valving and controlling air flow.
Temperature Control	Temperature control accurate to 0.5°C Python interface	Can create temperature zones inside of the microfluidic chips with temperature variations of less than 0.5C.
Optical Detector	405-945nm	This module leverages synchronous detection to eliminate ambient noise. This system allows for monitoring of droplet size and speed with minimal cost in addition to enabling optical assays.
TPU Membrane	Air permeable	This membrane enables air permeability in our chips; especially important for microbiology applications.