Resource Summary Report

Generated by dkNET on Apr 26, 2025

Timed pressure control hardware and software for delivery of air mediated distensions in animal models

RRID:SCR_022363
Type: Tool

Proper Citation

Timed pressure control hardware and software for delivery of air mediated distensions in animal models (RRID:SCR_022363)

Resource Information

URL: https://edspace.american.edu/openbehavior/project/timed-pressure-control/

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Description: System uses Arduino microcontroller to control relay module that operates solenoid valve which all sit in 3D printed housing. Solenoid works in conjunction with flowmeter regulator to allow for controlled flow of pressurized air into target. Timing of distensions is controlled via either custom Python based UI, or by triggered TTL pulse.Timed pressure control hardware and software used for delivery of air mediated distensions in animal models.

Synonyms: Timed pressure control hardware and software for delivery of air mediated distensions in animal models project

Resource Type: data or information resource, instrument resource, project portal, portal

Defining Citation: DOI:10.1016/J.OHX.2022.E00271

Keywords: OpenBehavior, Instrument, behavior apparatus, delivery of air mediated distensions, animal models

Funding:

Availability: Free, Freely available

Resource Name: Timed pressure control hardware and software for delivery of air mediated

distensions in animal models

Resource ID: SCR_022363

Alternate URLs: https://osf.io/rs5p4

Record Creation Time: 20220602T050140+0000

Record Last Update: 20250426T060859+0000

Ratings and Alerts

No rating or validation information has been found for Timed pressure control hardware and software for delivery of air mediated distensions in animal models.

No alerts have been found for Timed pressure control hardware and software for delivery of air mediated distensions in animal models.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 1 mentions in open access literature.

Listed below are recent publications. The full list is available at dkNET.

Smithard J, et al. (2017) An Advanced Multi-Sensor Acousto-Ultrasonic Structural Health Monitoring System: Development and Aerospace Demonstration. Materials (Basel, Switzerland), 10(7).