AE-541: Design and printing of Protective cover H2 sensor

Date: 2025-08-26
Tags: AE | CAD | Autodesk Inventor | Additive manufacturing | 3D print | photoreactor | Prusa Slicer
Category: Photoreactor
Status: Done
Created by: Alexander Eith

Literature/reference experiments

Literature	/
Reproduction	/
Similar experiments	Photoreactor - AE-337: Development of advanced photocheistry setup

Reagents

Name	CAS Number / Experiment Number	Inventory number	Amount [mmol]	Equivalents	$Mass_{theo}$ [mg]	$Mass_{exp}$ [g]	Molar mass [g/mol]	Density (g/ml)	Volume [ml]
PLA filament (Primavalue PLA+, filamentdiameter: 1.75 mm, colour: black)	26680-10-4	/	/	/	/	ca. 10 g	/	/	/

Printing

Date	Time	Part	CAD file	STL file	Description / Modifiactions	Print Result	Needed modifications
21.08	/	Protective cover H2 sensor	2025_08_21_Protetctive_cover_H2_sensor.ipt	2025_08_21_Protetctive_cover_H2_sensor.stl	Protective cover for Equipment - H2 UniAmp Sensor - Normal range - 2.1 x 80 mm needle with GL18/NS14 transition piece attached Use with palstic clamp for NS14 glas joint	worked	Rim bit to long, reduce by 1 to 2 mm to allow fitting of yelow plastic clamps, but functional

Use Protective cover H2 sensor, till new version is printed

Linked experiments

Photoreactor - AE-337: Development of advanced photocheistry setup

Photoreactor - AE-367: Setup of advanced irradiation setup V1.0

Photoreactor - AE-515: Printing of 3rd advanced irradiation setup V1.0

Photoreactor - AE-539: Design and printing of holder for GL14 OXSOLV for KRA

Linked resource

Equipment - H2 UniAmp Sensor - Normal range - 2.1 x 80 mm needle

Attached files

2025_08_21_Protetctive_cover_H2_sensor.ipt
sha256: 274e2d921c16f1220a0882669fd20b33b947862fc62cfede2db318bdc482b215

2025_08_21_Protetctive_cover_H2_sensor.stl
sha256: cf48a32cc80c7fa38510473dc5b3a45b456180301e558e2ae2eff0b8917fce44

Unique eLabID: 20250826-e67ace6b38eed1d28ad0410dc1c65aeaf03938e1
Link: https://elab.water-splitting.org/experiments.php?mode=view&id=2777