

# HW Laboratory

The Networked Embedded Sensing Center located at Fuerstenweg 176 entertains a hardware development and test laboratory. By request this laboratory is open to all employees of UIBK. If interested please contact Tatiana Elmakova for details.

## Lab Instruments

Model	Manufacturer	Serial Number	Purchase Date	UIBK Inventory	Comment
E36313A DC Power Supply	Keysight	MY57240029	2020		
EDU36311A DC Power Supply	Keysight	CN62250096	2022/12/07	34073310	
EDU33212A Waveform Generator	Keysight	CN62210126	2022/12/07	34073309	
EDU34450A Digital Multimeter	Keysight	CN62300037	2022/12/07	34073307	
EDUX1052G 2CH 50 MHz Oscilloscope	Keysight	CN63121176	2023/05/02	34073308	
34465A 6.5 50'000 Multimeter	Keysight	MY60071033	2023/05/02	30019304	
1552A-12 Reference Thermometer -80 to 300C, $\pm 0,05$ °C	Fluke	6461001	2024/06/20		replaced from unit 1572058 (broken PRT)
Battery Charger	Vitronic				
MKF 056 (E5) Climate Chamber	Binder	20230000016577	2023/12/04	31014948	Model number 9020-0378, login admin, 2 (panel)
Otii Ace-Pro + Software (1y)	Otii	221104200372	2024/02/01	30019650-0000	
Otii Ace-Pro	Otii	221104200587	2024/06/18		
MSO46B 4-BW-1000 1 GHz Oscilloscope	Tektronix	C069945	2024/08/01		Option 4-ULTIMATE-PER, 3Y warranty
DMM7510 7.5 1'000'000 Digitizer/DMM	Keithley	4619255	2024/06/10		

## TEK Oscilloscope & Probes

A MSO46B 4-BW-1000 1 GHz Oscilloscope including a bundle of all software extension options 4-

ULTIMATE-PE is available with a selection of probes:

Model	Description	Serial Number	Purchase Date	Comment
TAP1500	Low voltage single-ended probe 1.5 GHz	B023966		
TLP084	8-channel logic probe	C300253		
TPA-N-PRE	Pre-amplifier	C000133	2024/08/01	
TPP1000	Passive voltage 1 GHz	C275516 C275517 C275520 C275521 C275526 C275529	2024/08/01	
TPR1000	Power rail probe 1 GHz	D010233	2024/08/01	

- SEC (Rainer Boehme) group has a TEK MDO3104 1GHz Oscilloscope + MDO3SA option, no SW
- IFI further has an old TDS200 Scope, Signal generator and ELV charging unit

## Power Profiling

Special equipment for power profiling, mixed signal analysis and test is available:

- [Otii Ace Pro](#) 50kSPS - 0.4nA-5A - mixed signal - serial port - power supply/analyzer
- [RocketLogger](#)
- USB power profiling dongle

## Binder MKF56 Temperature/Humidity Chamber -40 to +180 C; 10 % to 98 % RH

Dynamic climate chambers for rapid temperature changes with humidity control, 400, 420, 380 mm inside.

The Binder APT-COM4 control and measurement software needs admin privileges (to install/run), two node-locked licenses available via support, is installed on lab-pc `pacceri.uibk.ac.at`; default password on door for "user" is "1", "admin" is "2"

## Misc Tools and Devices

- Div. hand multimeters
- Saleae Logic 8
- Segger J-link Pro
- Different development kits/programming/debug devices
- Raspberry Pi
- Beaglebone Black
- [SensePeek PCBite Handsfree Kit](#)
- Thermal Testbed
- Thermal Calibration Facility

## Laboratory PC

A laboratory PC `pacceri.uibk.ac.at` with a Windows 11 setup and design tools (Altium, Solidworks, Keysight, Tektronix, Keythley) is available.

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Last update: **2024/12/18 18:07**