

Specification

1. General Conditions

1-1. Address	Okinawa Institute of Science and Technology School Corporation (OIST)
1-2. Title	Parameter analyzer and Probe station Bench, 1set
1-3. Delivery Due Date	Sep 30, 2017
1-4. Delivery Place	Lab 2 (level A)
	at Okinawa Institute of Science and Technology School Corporation (OIST Onna Campus: 1919-1 Tancha, Onnason, Okinawa, 904-0495 Japan)

2. Constitution and specification

(A) Composition

#	Products	Model	Qty.	Unit
1	Parameter Analyzer Package	4200A-SCS-PK2	1	ea
2	Medium Power Source Measure Unit	4200-SMU	2	ea
3	Remote SMU Preamplifier Module	4200-PA	3	ea
3	Multi-frequency C-V Unit	4210-CVU	1	ea
4	CVIV Multi-Switch Module	4200A-CVIV	1	ea
5	C/C++ Compiler	4200-Compiler	1	ea
Structures:				
	Parameter Analyzer with 15.6" LCD display	4200A-SCS	1 ea	
	Medium Power Source Measure Unit	4200-SMU	4 ea	
	Remote SMU Preamplifier Module	4200-PA	4 ea	
	Multi-frequency C-V Unit	4210-CVU	1 ea	
	CVIV Multi-Switch Module	4200A-CVIV	1 ea	
	Test fixture with sample devices	8101-PIV	1 ea	
	C/C++ Compiler	4200-COMPILER	1 ea	

Apollo wave Items:

6inch triaxial chuck / NC6-TRI *up to 6 inch wafer size

Microscope / SZ61 *Olympus SZ61, LED lamp is included

Microscope arm / AR200

Micro positioner / M20-TADP20

. Stage travel

. Straightness

. Hold

:X:±5mm、Y:±5mm、Z:±5mm :under 30um

:Magnet rubber

Triaxial probe arm / TXAP200 For low leak measurement, CV measurement probe. Tungsten straight needle is attached for probing.

Tungsten straight needle / TN Tip diameter is selectable from 1,2,5,10,30 um.

Vacuum pump / VP

Shielding box / SBC200 For shield the light and noise from outside

Connector panel / CP-T5T5 Connect between the cables from the tester to shielding box inside. The place will be decided by the requirement.

(B) Specification and performance

4200A-SCS

Display: 15.6 inch touch screen(1920x1080) full HD

Power Requirements: 100 V to 240 V, 50 to 60 Hz

Dimensions: 43.6 cm wide × 22.3 cm high × 56.5 cm deep

I/O ports: USB, SVGA, printer, RS-232, GPIB, Ethernet, keyboard

Accepts up to Nine SMU modules

Parameter Analyzer software allows performing nearly any type of I-V, C-V characterization test, provides user interface with touch-and-swipe or point-and-click control and user can learn about each test with short videos and application notes

4200-SMU and 4200-PA I-V Source Measure Unit

±210 V max voltage

1 pA – 100 mA 12 current ranges

10 nA measure resolution of display resolution @1 pA Range

4210-CVU C-V Multi-frequency Capacitance Unit

AC impedance measurements (C-V, C-f, C-t)

1 kHz – 10 MHz frequency ranges

4200A-CVIV I-V/C-V Multi-Switch Module

Easily switch between I-V and C-V measurements without re-cabling or lifting probe needles

Move the C-V measurement to any terminal without re-cabling or lifting probe needles

Dimensions: 19.8 cm wide x 14.2 cm high x 11.1 cm deep

Apollo wave Main body / AWP150-2 Stage travel (coarse motion) Sub stage travel (micro motion) Wafer dimension

Method of fixation for Wafer

: x:200mm, Y:200mm : x:25mm, Y:25mm : 6inch : Vacuum absorbing method

(more than 400mmHg, up to 6 inch wafer size) : 10+5mm : plus-minus 5 degrees

Z Stage Travel Theta stage travel Weight and dimension of main body

Utility Vacuum Power supply

: Depth 535mm : Wide 600mm : Height 390mm : Weight about 60kg

: Required more than 400mmHg

: AC 100V 5A * Others (Microscope illumination, vacuum pump etc)

(C) Acceptance inspection at delivery

Test and Inspection
The deliverable must satisfy the quoted and specified qualities of the deliverables, and satisfy the conditions specified in this document. At the delivery OIST personnel in charge will check result data of quality check on purity and characterization.

3. Other

3-1. Warranty
In the event the defect in the subject matter is caused by seller's intentional or negligent acts, seller shall take responsibility for it.

3-2. Documents to be submitted at the delivery			
Data sheet of characterization	1	Copy(ies) in	English
Delivery slip	1	Copy(ies) in	English /Japanese
Invoice	1	Copy(ies) in	English /Japanese

3-4. Miscellaneous provisions
The seller must cover the cost of shipping, packing and delivery.
Any question arising out of, or in connection with, this transaction or any matter not stipulated herein shall be settled each time upon consultation between both parties. The seller will respect to the will of OIST as much as possible in settling such matters.