

CONTRACT AGREEMENT

FOR THE

**Procurement of Technical Scientific Laboratory Equipment for CAFF and CNPAHS at
NORSU Pamplona and Main Campuses (Batch 1)**

For Items:

- 2. Moisture Content Analyzer; and
- 4. Benchtop pH Meter (touch screen with auto recognition of buffers)

THIS CONTRACT is made and entered into this DEC 18 2020 day of 2020 by and between:

NEGROS ORIENTAL STATE UNIVERSITY, a State University organized and existing under and by virtue of the laws of the Republic of the Philippines, with principal office address at Kagawasan Ave., Main Campus, Dumaguete City, Negros Oriental, Philippines, duly represented by **DR. JOEL P. LIMSON**, hereinafter referred to as **OWNER**.

and

KRYPTON INDUSTRIAL RESOURCES, CO., of M.C. Briones Street, Hi-way Tipolo, Mandaue City, Cebu, duly represented by **REGINA C. TOLERO** by virtue of a *Secretary's Certificate* dated July 14, 2020 authorized by *Corporate Secretary*, **Barry M. Umacob**, hereinafter referred to as **SUPPLIER**.

WITNESETH:

WHEREAS, a public bidding was conducted on July 17, 2020 at the BAC Office of Negros Oriental State University, Kagawasan Avenue, Dumaguete City for the **Two (2) items** under the project "**Procurement of Technical Scientific Laboratory Equipment for CAFF and CNPAHS at NORSU Pamplona and Main Campuses (Batch 1)**";

WHEREAS, the NORSU Bids and Awards Committee recommended to the University President that the project shall be awarded to **KRYPTON INDUSTRIAL RESOURCES, CO.**, its offer being the most advantageous to the Philippine Government;

WHEREAS, time is the essence of this contract;

NOW, THEREFORE, for and in consideration of the foregoing premises and other covenants hereinafter named, the parties agree as follows:

ARTICLE I. CONTRACT DOCUMENTS

The following documents shall be attached, deemed to form, and be read and construed as integral part of this Agreement, to wit:

- (a) The Bid Form and the Price Schedule by the Bidder;
- (b) The Schedule of Requirements;
- (c) The Technical Specifications;
- (d) The General Conditions of Contract;
- (e) The Special Conditions of Contract;
- (f) The Performance Security; and
- (g) Eligibility requirements, documents and/or statements;
- (h) Performance Security;
- (i) Notice of Award of Contract and the Bidder's conforme thereto;
- (j) Abstract of Bids
- (k) Resolution of the BAC recommending the award of the project to the winning bidder;
- (l) Other contract documents that may be required by existing laws and/or the Entity.

ARTICLE II – SCHEDULE OF REQUIREMENTS

The inclusions in the delivery of the items in this contract are as follows:

1. ITEM 2: Moisture Content Analyzer (1 pc)

Specification:

Maximum capacity –At least 60g
resolution -10mg
Heat source: halogen lamp
Temp Step: 40-199 Celsius
Moisture Readability: 0.20%
Pan size: At least 90 mm
Line Voltage: 220V 60HZ
Accessory: Printer Compatible to the Equipment

Place of Delivery: NORSU Main/Pamplona Campus

2. ITEM 4: Benchtop pH Meter (touch screen with auto recognition of buffers) (1 pc)

Specifications:

pH:

Measurement range: (-199 ~ 19.999) pH
Resolution: 0.1/0.01/0.001 pH
Accuracy: Electrocode ± 0.002 pH, Meter: ± 0.01 pH
Input Current: $\leq 1 \times 10^{-12}$ A
Input impedance: $\geq 3 \times 10^{12} \Omega$
Stability: ± 0.002 pH/3H
Temperature Compensation: (0 ~ 100)C, Auto or Manual

mV:

Measurement Range: (-1999.00 ~ 1999.00) mV
Resolution: 0.1 mV
Accuracy : $\pm 0.03\%$ FS
Range: (-10 ~ 110) C

Temperature:

Resolution: 0.1C
Accuracy: 5-60 C ± 0.4 C, other ± 0.8 C
Display: 7-inch colored capacitive touch screen
Data Storage: 1000 sets

Other Parameters:

Power: 12V/1A
Communication Interface: USB, bluetooth
Dimension & Weight: 215 x 170 x 37mm/600g
Temperature: 5-40 C

Working Conditions:

Humidity: 5-85 %
IP Grade: IP 54

Meter Kits:

1. Ph meter
 2. Electrocode holder
 3. Two in one electrocode that consists of pH combination electrocode and temperature probe.
 4. ph buffer solution
- Power adapter

Place of Delivery: NORSU Main/Pamplona Campus

**Please see attached brochure submitted in "ANNEX A".*

ARTICLE III – DELIVERY, INSPECTION AND TESTING

The work to be performed by the SUPPLIER under this contract shall commence after seven (7) calendar days upon receipt and acceptance of the Notice to Proceed from NORSU by the SUPPLIER. The delivery of two (2) items under project: "Procurement of Technical Scientific Laboratory Equipment for CAFF and CNPAHS at NORSU Pamplona and Main Campuses (Batch 1)" shall be completed within **Ninety (90) calendar days** upon receipt of Notice to Proceed.

Intensive testing should be done by the SUPPLIER together with the authorized representatives (including the end-user) of the OWNER to achieve functionality and benefits of the equipment. The SUPPLIER must provide an actual result of the testing of the hardware validated by the end-user.

ARTICLE IV – WARRANTY

The warranty period for the contract shall be one (1) year from the receipt of Certificate of Final Acceptance by the end-user. The SUPPLIER hereby warrants compliance with the requirements stipulated under this contract.

ARTICLE V – MAINTENANCE/TECHNICAL SUPPORT

During the warranty period, the SUPPLIER shall provide at least one (1) Certified Specialist /Expert in his/her employ to service the said equipment on site, in case of malfunctioning or any other related problem wholly or partly attributable to the operating condition of said equipment.

On call support shall be available 24 hours a day, 7 days a week. A one (1) hour response from time of the call (through telephone/mobile call) shall be provided by the winning bidder for trouble shooting.

Onsite support must have a response time of not more than eight (8) hours from the time of the call in cases of on call/phone support could not solve the problem.

On hardware repair, testing shall be done on-site to know the extent of the problem. Travel and other incidental expenses of responding Expert/specialist shall be borne by the SUPPLIER. During warranty period, all parts beyond repair shall be Intensive testing should be done by the SUPPLIER together with the authorized representatives (including the end user) of the OWNER to achieve functionality and benefits of the equipment. The SUPPLIER must provide an actual result of the testing of the hardware validated by the end-user.

ARTICLE VI – TECHNOLOGY TRANSFER

When needed, the SUPPLIER may provide technology transfer/in-depth technical training to SUPPLIER'S authorized personnel/staff, free of charge. Equipment testing and checking will be done at this point before final delivery. Training shall commence before issuance of Certificate of Acceptance by OWNER.

ARTICLE VII – THE CONTRACT SUM

The OWNER for and in consideration of the faithful and satisfactory fulfillment of the contract by the SUPPLIER in accordance with the terms and conditions of all contract documents and subject to the deduction herein provided, shall pay to the SUPPLIER in Philippine Currency in the amount below:

ITEMS/DESCRIPTION	Total Amount in Figures	Total Amount in Words
2. Moisture Content Analyzer	182,000.00	One Hundred Eighty-Two Thousand Pesos Only
4. Benchtop pH Meter (touch screen with auto recognition of buffers)	65,000.00	Sixty-Five Thousand Pesos Only
	247,000.00	Two Hundred Forty-Seven Thousand Pesos Only

Billing shall commence after the issuance of the Certificate of Final Acceptance by the end-user.

ARTICLE VIII – PERFORMANCE SECURITY

In accordance with the Instruction to Bidders and General Conditions of the contract, the SUPPLIER shall furnish and file per acceptance to the OWNER a Performance Security in accordance with Section 39 of the Revised Implementing Rules and Regulations of RA 9184 to guaranty the full and faithful performance of this Agreement to answer for any liability that maybe suffered by the OWNER resulting from the violation of the SUPPLIER of labor laws and other laws. PROVIDED, that in the event of the recession or termination of this contract for breach thereof, the Performance Security, at the option of the OWNER shall be automatically forfeited in favor of the OWNER and becomes immediately payable and collectible by the OWNER, otherwise, the Performance Security shall remain and continue in full force until the aforementioned obligations as to the completion and faithful compliance of the contract, liquidated damages and cost of labor and materials shall have been duly satisfied, discharged, settled and paid by the SUPPLIER.

The Performance Security shall be denominated on Philippine Pesos and posted in favor of the OWNER in an amount equal to the following schedule:

Form of Performance Security	Amount of Performance Security (Equal to Percentage of the Total Contract Price)
a) Cash or cashier's/manager's check issued by a Universal or Commercial Bank. For biddings conducted by LGUs, the cashier's/manager's check may be issued by other banks certified by the BSP as authorized to issue such financial instrument.	Five percent (5%)
b) Bank draft/guarantee or irrevocable letter of credit issued by a Universal or Commercial Bank: Provided, however, That it shall be confirmed or authenticated by a Universal or Commercial Bank, if issued by a foreign bank. For biddings conducted by LGUs, bank draft/guarantee, or irrevocable letter of credit may be issued by other banks certified by the BSP as authorized to issue such financial instrument. (a)	
c) Surety bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission as authorized to issue such security.	Five percent (30%)

ARTICLE IX – LIQUIDATED DAMAGES

Should the SUPPLIER refuse to satisfactorily comply with its undertakings, and is hereby in default under this contract, the SUPPLIER shall be liable for damages for the delay and shall pay the OWNER for liquidated damages and not by way of penalty, an amount equivalent to one-tenth (1/10) of one percent (1%) of the cost of unperformed portion thereof, for every day of delay until the same is finally performed/completed and accepted by the OWNER.

It is understood that the damages herein provided are fixed and agreed liquidated damages and to be entitled to such damages, the OWNER need not prove that it has incurred actual damages. Such amount shall be deducted from any money due or which may become due to SUPPLIER under the contract and/or collect such liquidated damages from the performance security posted by the SUPPLIER, whichever is convenient to the OWNER.

In no case, however, shall the total sum of liquidated damages exceed ten percent (10%) of the total contract price, in which event the contract shall automatically be terminated by the OWNER and the erring SUPPLIER'S performance security shall be forfeited. The amount of the forfeited performance security shall be set aside from the amount of the liquidated damages that the SUPPLIER shall pay OWNER under this section and the other appropriate sanctions that may be imposed to the former.

ARTICLE X – SUPPLIER'S LIABILITY

The SUPPLIER shall assume full responsibility, agrees and binds itself to indemnify the OWNER for any loss, damage, destruction and/or injury that may be incurred the during period of delivery until the period of acceptance for acts attributed to negligence, fault, misconduct or unlawful acts of the SUPPLIER and its personnel.

ARTICLE XI – CANCELLATION/TERMINATION OF CONTRACT

The OWNER has the right to terminate or cancel the contract without need of judicial action at any time on reasonable grounds, such as, but not limited to: unsatisfactory service and performance or violation of the terms and conditions of this contract, by giving the SUPPLIER at least fifteen (15) calendar days of written notice in advance to that effect, which Notice shall be final and binding on all parties.

Within thirty (30) days after the termination, cancellation, or rescission of this contract, the parties shall settle their respective accountabilities as of the date of termination, cancellation, or rescission.

ARTICLE XII – VENUE OF COURT ACTION


Should any court action be instituted by the NORSU or SUPPLIER arising from this contract, the parties hereby agree that the venue thereof shall be the proper court in the province of Negros Oriental.


DEC 18 2020

IN WITNESS WHEREOF, the parties have hereunto set their hands this _____ day of _____ 2020 at NORSU Main Campus I, Kagawasan Avenue, Dumaguete City, Philippines.


NEGROS ORIENTAL STATE UNIVERSITY
Kagawasan Avenue, Dumaguete City

KRYPTON INDUSTRIAL RESOURCES, CO.,
M.C. Briones St., Highway Tipolo, Mandaue City, Cebu


JOEL P. JIMSON, Ph.D.
University President
OWNER


MS. REGINA C. TOLERO
Authorized Representative
SUPPLIER

Signed in the Presence of:


DR. DARLYN B. POSAS
End User


NOBLEZA ROY R.

ACKNOWLEDGMENT

Republic of the Philippines]
Province of Negros Oriental } S.S
City of Dumaguete]

BEFORE ME, a Notary Public, for and in the City of Dumaguete, Philippines, this **DEC 18 2020**
of _____ 2020, personally appeared the parties with their competent evidence of
identity which bears their pictures and signatures, to wit:

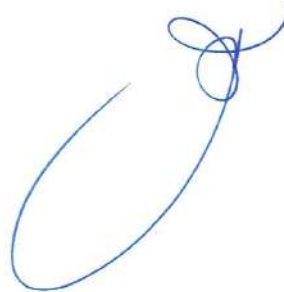
Name	Identification Card/No.	Valid Until
REGINA C. TOLERO	CRN no. 0111-3735965-2	
JOEL P. LIMSON, Ph. D.		

That they are the same persons who executed the foregoing instrument and acknowledged that the same is their free and voluntary act and deed consisting of Sixteen (16) pages including this page whereon this acknowledgement is written, is signed by the parties and their instrumental witnesses on each and every page thereof and sealed with my Notarial Seal.

WITNESS MY HAND AND SEAL, on the date and place above written.

Doc. No. 214 ;
Page No. 64 ;
Book No. 13 ;
Series of 2020

Atty. Bonifacio T. Degamo Jr.
Notary Public
Until December 31, 2020
IBP No. 054936 - 1/2/20
PTR No. 1505786 - 1/2/20
Roll of Attorneys No. 31311
Notarial Commission No. 68-19
MCLE Compliance No. VI-001072
9-D- JAKOSLEM St. Cebu City



ANNEX A

ITEM #2 . MA 110, X2. A. WH MOISTURE ANALYZER



DATASHEET

Maximum capacity (Max)	110g
Resolution (R)	1mg
Tare range	110g
Adjustment	internal
Display	5" backlit colour touchscreen
Communication interface	RS232, USB-A, USB-B, Wi-Fi
Power supply	230 - 240 V AC 50 - 60 Hz
Power consumption	6.5W
Operating temperature	+10 - +40 °C
Maximum sample weight	110g
Weighing mode	toppan
Heating mode power	450 W
Moisture content measurability	+/-0.05% (Sample = 2g) +/-0.04% (Sample = 10g)
Moisture content measurability	0.001%
Drying temperature range	100-250 °C
Drying method	4 drying profiles (standard, fast, slow, MID)
End mode	4 modes (Automatic, manual, time defined, user defined)
Maximum sample height	20 mm
Heating pan dimensions	25x25x5 mm
Packaging dimensions	47x36x134 mm
Net weight	0.2 kg
Gross weight	0.7 kg
Additional features	sample tray(s)

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ITEM #4. T-710 SERIES PH METER

T-710 Series pH meter



Main Features

- 7-inch color capacitive screen with high resolution (1024*600) and sensitivity, which can show more parameters, more intuitive and simpler to read data
- English and Chinese operating system; humanized design with adjustable screen brightness. System language can be customized according to specific requirements
- Auto calibration, auto temperature compensation, data storage, USB data export, clock, wireless printing, function set-up, smart self-diagnosis and other intelligent functions
- Dig built-in memory can store 1000 sets of test data which can be saved and transferred to USB flash drive and opened with Excel, very easy and convenient for edit
- Can set up pH measurement modes of high purity water and pure water with ammonia to meet the requirements of power petrochemical and other industries (only for model T-712P)
- Auto recognition of standard pH buffer solutions and there are three kinds of standard buffers for option: USA series, NIST series and China series
- With standard Bluetooth block and support wireless Bluetooth printing to make operations much easier for users. Optional data transmission to PC and cell phone via wireless Bluetooth
- Smart judge of electrode status to ensure accurate use for operators
- IP54 dustproof and waterproof housing

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T-710 Series pH meter

Specifications

MODEL	T-710L	T-710P	T-710H
Description	General laboratory bench pH meter suitable for measuring industrial, farm, strength solutions, such as surface water, sea water and industrial waste water. It can be used in most of the cases related to water quality analysis.	Measure pH value of high purity water in glass, polyethylene and other materials.	High precision bench meter for pH analysis. Featuring addition of automatic temperature compensation (ATC) and automatic temperature control (ATC) for high accuracy measurement.
Display	* Each capacitive touch screen with backlight 1024x600		
pH	Measurement range: 0.000 ~ 14.000 pH Resolution: 0.001 pH Accuracy: ±0.001 pH Repeatability: ±0.001 pH Resolution: 0.001 pH Accuracy: ±0.001 pH Repeatability: ±0.001 pH Temperature compensation: ATC, manual control, ON/OFF, auto, freeze Measurement range: 0.000 ~ 14.000 pH	Measurement range: 0.000 ~ 14.000 pH Resolution: 0.001 pH Accuracy: ±0.001 pH Repeatability: ±0.001 pH Resolution: 0.001 pH Accuracy: ±0.001 pH Repeatability: ±0.001 pH Temperature compensation: ATC, manual control, ON/OFF, auto, freeze Measurement range: 0.000 ~ 14.000 pH	Measurement range: 0.000 ~ 14.000 pH Resolution: 0.001 pH Accuracy: ±0.001 pH Repeatability: ±0.001 pH Resolution: 0.001 pH Accuracy: ±0.001 pH Repeatability: ±0.001 pH Temperature compensation: ATC, manual control, ON/OFF, auto, freeze Measurement range: 0.000 ~ 14.000 pH
mV	Resolution: 1mV Accuracy: ±0.1% FS Range: 0.00 ~ 400.00		Resolution: 1mV Accuracy: ±0.1% FS
Temperature	Resolution: 0.1°C Accuracy: ±0.1°C		
Calibration	Automatic 1, 2, 3 points User defined three electrode		
Others	Display type: LCD color Power: DC 200mA Communication interface: USB, RS-485, wireless Bluetooth module Dimensions & Weight: 240x110x50mm/200g Temperature: 0 ~ 50°C Humidity: 85% Weight: 1.5kg		
Working Conditions			

Standard Configuration

- 1. 5.7" pH meter 1 unit
- 2. Carrying case 1 pc
- 3. 200mA electronic probe 1 pc
- 4. 2mm calibration buffer 1 pc
- 5. 12V power adapter 1 pc
- 6. User operating manual 1 copy
- 7. USB power cord 1 pc

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T-710 Series pH meter

Specifications

MODEL	T-710L	T-710P	T-710H
Description	General laboratory benchtop meter suitable for measuring laboratory water strength solutions such as sulfate water, sea water and industrial waste water. It can be used in most of the water related to water quality analysis.	Measures pH value of high purity water in power, pharmaceutical and other industries.	High precision benchtop. Small size. Suitable for measuring solution of water with high accuracy. It can be used in laboratory, industrial and other water related to water quality analysis.
Display	7 inch capacitive touch screen with resolution 1024*600		
pH			
Measurement range	-14.00 ~ 14.00 pH	-2.00 ~ 14.00 pH	-2.00 ~ 14.00 pH
Resolution	0.0001 pH	0.001 pH	0.0001 pH
Stability	±0.002%	±0.01%	±0.001%
Accuracy	±0.001 pH	±0.01 pH	±0.001 pH
Repeatability	±0.001 pH	±0.01 pH	±0.001 pH
Stability	±0.001 pH	±0.01 pH	±0.001 pH
Temperature compensation	0 ~ 100 °C automatic	0 ~ 100 °C manual	0 ~ 100 °C automatic
mV			
Resolution	1mV	1mV	1mV
Accuracy	±0.01%	±0.01%	±0.01%
Range	±199.9 mV	±199.9 mV	±199.9 mV
Temperature			
Resolution	0.1 °C	0.1 °C	0.1 °C
Accuracy	±0.1 °C	±0.1 °C	±0.1 °C
Calibration	Automatic 3-point calibration		
Others			
Over-range	10 times	10 times	10 times
Power	DC 24V/1A	DC 24V/1A	DC 24V/1A
Communication interface	RS485, USB, RS232, Wireless Bluetooth module	RS485, USB, RS232, Wireless Bluetooth module	RS485, USB, RS232, Wireless Bluetooth module
Dimensions & Weight	260mm*160mm*100mm	260mm*160mm*100mm	260mm*160mm*100mm
Structure	IP65	IP65	IP65
Working Conditions			
Humidity	0-90%	0-90%	0-90%
Temperature	0-50 °C	0-50 °C	0-50 °C

Standard Configuration

- 1. T-710 pH meter 1 unit
- 2. Composite electrode 1 pc
- 3. Buffer & electrode holder 1 pc
- 4. 2m calibration buffer 1 pc
- 5. 12V power adapter 1 pc
- 6. User's operating manual 1 copy
- 7. USB data cable 1 pc

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MA X2.A Moisture Analyzers MA X2.IC.A Moisture Analyzers



Maximum functionality and an advanced level measurement in drying processes and moisture content analysis



Automatic drying chamber lid opening and closing



Dynamic control of sample mass - maximum capacity bar graph



5" touch screen with customized buttons layout

Functions



Features

Measurement Precision Along with High Performance and Productivity

Due to ideal measurement parameters and high performance, the MA X2.A moisture analyzers can be used for vast range of moisture content determination processes.

Mass Measurement Accuracy and Drying Temperature Optimisation

Smart control of heating module operation guarantees optimum drying temperature, plus fast and precise measurement. At your disposal there are numerous drying profiles ensuring various methods of obtaining the pre-set temperature.

Ease of Use and Maximum Comfort of Operation

Thanks to a clear and intuitive menu layout and 5" colour touch screen, maximum comfort and incredibly easy operation are both ensured.

Automatic Adjustment System (IC Series Exclusively)

Internal adjustment system guarantees the highest accuracy and reliable measurements results.

Drying Result Prognosis

Innovative function, Drying Forecast, allows to shorten duration of moisture content analysis process via forecasting the final result even before drying process completion.

Drying Chamber Auto-Control

Automatic system of opening and closing the drying chamber's lid enables handy control either by means of proximity sensors or on-screen buttons.

Touch-Free Operation

Two programmable proximity sensors can be assigned with any function or application. The given function when assigned is both run and operated touch-free.

Databases as Drying Processes Support

Possibility to record sample-related information and drying parameters in the database improves managing of measurement processes and makes comfort of operation more advanced.

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Technical Specifications

	MA 50/1.X2.A MA 50/1.X2.IC.A	MA 50.X2.A MA 50.X2.IC.A
Maximum capacity (Max)	50 g	50 g
Readability (d)	0.1 mg	1 mg
Tare range	-50 g	-50 g
Maximum sample weight	50 g	50 g
Drying temperature range	max. 160 °C, max. 250 °C (option)*	max. 160 °C, max. 250 °C (option)*
Moisture content readability	0.0001%	0.001%
Moisture content repeatability	0.05% (ca. 2 g sample), 0.01% (ca. 10 g sample)	0.25% (ca. 2 g sample), 0.01% (ca. 10 g sample)
Adjustment	external (MAX2.A) internal (MAX2.IC.A)	external (MAX2.A) internal (MAX2.IC.A)
Display	5" capacitive colour touch screen	5" capacitive colour touch screen
Keypad	6 keys	6 keys
Heating module	IR emitter halogen lamp (option)** metal heater (option)**	IR emitter halogen lamp (option)** metal heater (option)**
Databases	8	8
Drying profiles	standard, fast, step, mild	standard, fast, step, mild
Finish mode	manual, automatic, time-defined, user-defined	manual, automatic, time-defined, user-defined
Touch-free operation	2 programmable proximity sensors	2 programmable proximity sensors
Additional functions	control of sample mass prior the drying process, automatic drying chamber's lid opening and closing	control of sample mass prior the drying process, automatic drying chamber's lid opening and closing
USB-A	1	1
USB-B	1	1
RS 232	1	1
Wireless connection	802.11 b/g/n	802.11 b/g/n
Ethernet	10 / 100 Mbit	10 / 100 Mbit
Power supply	230 V	230 V
Power consumption	6 W (during weighing) and max. 450 W (during drying)	6 W (during weighing) and max. 450 W (during drying)
Heating module power	450 W	450 W
Operating temperature	+10 - +40 °C	+10 - +40 °C
Atmospheric humidity***	40 - 80%	40 - 80%
Transport and storage temperature	-20 - +50 °C	-20 - +50 °C
Maximum sample height	h= 20 mm	h= 20 mm
Weighing pan dimensions	ø 90 mm, h= 8 mm	ø 90 mm, h= 8 mm
Weighing device dimensions	338 x 206 x 197 mm	338 x 206 x 197 mm
Net weight	5.2 kg (MAX2.A) 5.3 kg (MAX2.IC.A)	5.3 kg (MAX2.A) 5.3 kg (MAX2.IC.A)
Gross weight	6.7 kg (MAX2.A) 6.8 kg (MAX2.IC.A)	6.7 kg (MAX2.A) 6.8 kg (MAX2.IC.A)
Packaging dimensions	470 x 380 x 336 mm	470 x 380 x 336 mm

* optional design with halogen lamp - max temperature 250 °C
 ** optional design with programmable heating module: halogen lamp - WH version; metal heater - HS version
 *** non-condensing, cold brine

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	MA 110.X2.A MA 110.X2.IC.A	MA 200/1.X2.A MA 200/1.X2.IC.A
Maximum capacity (Max)	110 g	200 g
Readability (d)	1 mg	0.1 mg
Tare range	-110 g	-200 g
Maximum sample weight	110 g	200 g
Drying temperature range	max. 160 °C, max. 250 °C (option)*	max. 160 °C, max. 250 °C (option)*
Moisture content readability	0.001%	0.0001 %
Moisture content repeatability	0.05% (ca. 2 g sample) 0.01% (ca. 10 g sample)	0.05% (ca. 2 g sample) 0.01% (ca. 10 g sample)
Adjustment	external (MA.X2.A) internal (MA.X2.IC.A)	external (MA.X2.A) internal (MA.X2.IC.A)
Display	5" capacitive colour touch screen	5" capacitive colour touch screen
Keypad	6 keys	6 keys
Heating module	IR emitter halogen lamp (option)** metal heater (option)**	IR emitter halogen lamp (option)** metal heater (option)**
Databases	8	8
Drying profiles	standard, fast, step, mild	standard, fast, step, mild
Finish mode	manual, automatic, time-defined, user-defined	manual, automatic, time-defined, user-defined
Touch-free operation	7 programmable proximity sensors	7 programmable proximity sensors
Additional functions	control of sample mass prior the drying process, automatic drying chamber's lid opening and closing	control of sample mass prior the drying process, automatic drying chamber's lid opening and closing
USB-A	1	1
USB-B	1	1
RS 232	1	1
Wireless Connection	802.11 b/g/n	802.11 b/g/n
Ethernet	10 / 100 Mbit	10 / 100 Mbit
Power supply	230 V	230 V
Power consumption	6 W (during weighing) and max 450 W (during drying)	6 W (during weighing) and max 450 W (during drying)
Heating module power	450 W	450 W
Operating temperature	+10 – +40 °C	+10 – +40 °C
Atmospheric humidity***	40 – 80%	40 – 80%
Transport and storage temperature	-20 – +50 °C	-20 – +50 °C
Maximum sample height	h= 20 mm	h= 20 mm
Weighing pan dimensions	ø 90 mm, h= 8 mm	ø 90 mm, h= 8 mm
Weighing device dimensions	338 x 206 x 197 mm	338 x 206 x 197 mm
Net weight	5.2 kg (MA.X2.A) 5.3 kg (MA.X2.IC.A)	5.2 kg (MA.X2.A) 5.4 kg (MA.X2.IC.A)
Gross weight	6.7 kg (MA.X2.A) 6.8 kg (MA.X2.IC.A)	6.7 kg (MA.X2.A) 6.9 kg (MA.X2.IC.A)
Packaging dimensions	470 x 380 x 336 mm	470 x 380 x 336 mm

* optional design: with halogen lamp - max temperature 250 °C
 ** optional design: with adjustable heating module: halogen lamp - W1 version, metal heater - W5 version
 *** not concerning oven-floats

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 REGINA C. GILBERTO
 NAME & SIGNATURE

ISTD



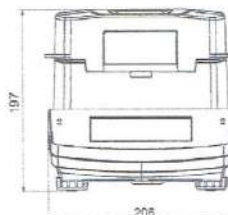
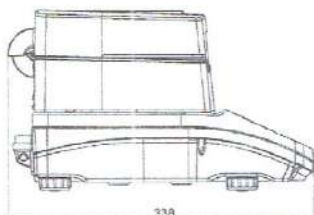
	MA 210.X2.A MA 210.X2.CA
Maximum capacity (Max)	210 g
Readability (d)	1 mg
Tare range	-210 g
Maximum sample weight	210 g
Drying temperature range*	max. 160 °C, max. 250 °C (optional)*
Moisture content readability	0.001%
Moisture content repeatability	0.02% (ca. 2 g sample) 0.01% (ca. 10 g sample)
Adjustment	external (MAX2.A) internal (MAX2.CA)
Display	5" capacitive colour touch screen
Keypad	6 Keys
Heating module	IR emitter halogen lamp (optional)** metal heater (optional)**
Databases	5
Drying profiles	standard, fast, step, mild
Finish mode	manual, automatic, time-defined, user-defined
Touch-free operation	7 programmable proximity sensors
Additional functions	control of sample mass prior to the drying process automatic drying chamber's lid opening and closing
USB-A	1
USB-B	1
RS 232	1
Wireless Connection	802.11 b/g/n 10, 100 Mbit
Ethernet	
Power supply	230 V
Power consumption	6 W (during weighing) and max 450 W (during drying)
Heating module power	450 W
Operating temperature	+10 – +40 °C
Atmospheric humidity***	40 – 80%
Transport and storage temperature	-20 – +50 °C
Maximum sample height	76 mm
Weighing pan dimensions	ø 90 mm, h: 8 mm
Weighing device dimensions	338 x 206 x 197 mm
Net weight	5.1 kg (MAX2.A) 5.4 kg (MAX2.CA)
Gross weight	6.7 kg (MAX2.A) 6.9 kg (MAX2.CA)
Packaging dimensions	470 x 380 x 336 mm

* optional version with halogen lamp – max. temperature 250 °C
 ** optional design with preferable heating module: halogen lamp – WH version, metal heater – HS version
 *** non-combusting materials

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Dimensions



Accessories

Weighing Tables

- antivibration tables for laboratory balances

Special Purpose Weighing

- water vapour permeability determination set

Ambient Conditions

- GT105K-12/2 control thermometer

Peripheral Devices

- Epson dot matrix printer
- barcode scanners

Consumables

- disposable pans

Cables, Converters

- P0108: RS 232 cable (balance-computer)
- P0151: RS 232 cable (balance - Epson printer)

Dedicated Software

R-LAB

- collecting measurements
- carrying out statistical analysis of measurements
- customized graphs and reports

EZR Moisture Analyzer

- drying programs synchronization
- online preview of the drying process
- drying processes record
- reporting of single and group drying operations

RAD KEY

- Establishing cooperation between a weighing instrument and a computer

RADWAG Remote Desktop

- remote operation via computer, mobile phone or tablet
- sending text messages
- version for Windows 10 and Android systems

Radwag Development Studio

- presentation of functions (and subfunctions) of communication protocol (Common Communication Protocol)
- possibility of connection with weighing equipment on which each function is carried out
- library with most control, contained within the development environment
- complete documentation of the communication protocol
- set of user manuals for different solutions addressed for programmers employed in companies using RADWAG-manufactured weighing equipment

LabView Driver

- operation of RADWAG balances in LabView environment

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KRYPTON INDUSTRIAL RESOURCES CO.

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Providing Industry Solutions at Its Best

July 17, 2020

The Chairman
Bids & Awards Committee
NEGROS ORIENTAL STATE UNIVERSITY
Kagawasan Avenue, Dumaguete City Negros Oriental

After Sales Service/Parts

Sir/Madam:


This is to certify that **KRYPTON INDUSTRIAL RESOURCES, CO.** in the persons of Mr. Barry M. Umacob (Technical Manager), Juvie Menoza (Technical Supervisor) and Benjie R. Tabilon (Technician) will be responsible for the after sales servicing of **PROCUREMENT OF TECHNICAL SCIENTIFIC LABORATORY EQUIPMENT FOR CAFF AND CNPAHS AT NORSU PAMPLONA AND MAIN CAMPUSES (BATCH 1)**.

Likewise, all necessary/required Parts will be available at any time needed by **NEGROS ORIENTAL STATE UNIVERSITY** at **Kagawasan Avenue, Dumaguete City Negros Oriental** to keep the Technical Scientific Laboratory Equipment in good operating condition.

Thank you.

Yours truly,

KRYPTON INDUSTRIAL RESOURCES CO.


REGINA C. TOVERO
Bidding Manager

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