

# PURCHASE ORDER No. 002220225

**Customer :****J. Heyrovský Institute of Physical Chemistry of the CAS, v. v. i.**Dolejškova 2155/3, 182 23 Prague 8, Czech Republic  
VAT No.CZ61388955**Supplier :**

VAT : DE227317512

CGC Instruments

Hübschmannstr. 18

09112 Chemnitz

GERMANY

**Sales Contact:**[Redacted]  
[Redacted] [Redacted]  
[Redacted] [Redacted] Fax : [Redacted]

Ship to : ÚFCH JH, Dolejškova 2155/3, Praha

Lead time : order confirmation Project No.: 577622

End-user : [Redacted]

Payment Terms : Bank Transfer

Phone : [Redacted] E-mail : [Redacted]

Shipping Terms : CIP Prague 8 (INC2010)

**We order:****Total Price**

according to your Quotation No. 91222819 (in the attachment) and our instructions given below

**63 834,00**Products - pos. 1-19: (R220013B)  
incl. handling , packing and shipping to UFCHJH, Dolejskova 2155/3, Praha 8**Expected total amount (without VAT)****63 834,00 EUR****PURCHASE ORDER TERMS AND CONDITIONS**

1. Kindly ask you to provide us with the ORDER CONFIRMATION. It has to include information about the: - all Supplier's existing costs or additional taxes, fees and charges connected with this order / - Purchase Order number / - Terms of delivery (Incoterms2010) / - Warranty / - Net and BTT weight per piece / - Customs tariff No. (HS-code) / - Country of origin / - Mode of transport / - Carrier name

2. Please provide us with the SHIPPING NOTIFICATION email once the shipment begins to travel (=Track & trace emails). To enclose the FINAL INVOICE always. Data Safety sheet in case of dangerous cargo.

3. For the Technical details, the Dispatch date Confirmation, the Installation or the Takeover of the Handover documentation, please Contact "the End-User" (the contact details stated above)

4. The Contact person for the shipping agent/courier: [Redacted] . (contact details stated above)

5. WARRANTY: as stated in the offer letter

**INVOICE, PAYMENT TERMS**

6. Billing/Delivery address (\*1) equals "Customer" and "Delivery address". Our VAT No.: CZ61388955. (\*1) in accordance to EU law names of contact persons are not provided).

7. Payment: Net 30 days from the date of invoice, wire transfer.  
Bank: SOB - Praha 1, Na P íkop 14, BIC (SWIFT): CEKOCZPP  
[Redacted]

8. We would like to inform you that since February 2010 a new Act No. 284/2009 Coll. of payments is valid which prohibits us to pay the bank charges of foreign banks.

**PUBLICATION in the REGISTER of CONTRACT**

9. Please note this order belong under the regime of the Act No. 340/2015 Coll. On the basis of the provisions of this Act is necessary to send us via e-mail your order confirmation ASAP. Due to § 6 the above mentioned Act, this order is not valid until the date of publication in the Register of contracts (information system of the Ministry of Interior in the Czech Republic) see § 4 of the above mentioned Act.

**Date of issue :15.07.2022****Set up :** [Redacted]

PRO.FA	FA	Intrastat	JSD	Registr smluv
		NE	NE	

[Redacted]  
stamp, signature

## CGC Instruments

Scientific Instrument Design,  
Electronics and Software Development

CGC Instruments | Hübschmannstr. 18 | D-09112 Chemnitz

J. Heyrovský Institute of Physical Chemistry

██████████  
Dolejškova 2155/3  
182 23 Prague 8  
Czech Republic

██████████ jh-inst.cas.cz

### Quotation

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Date: 15.07.2022  
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Customer No.: 51101168

Your request from June 2022

We thank for your request and offer the following products:

Pos.	Art. No. / Art. Description	Qty	Price per unit	Subtotal
1	<b>AMXR12 (AMXR6+5D)</b>  Base Unit for up to 12 Universal Digitally-Controlled Analog Switches/Multiplexers  Housing: 19", 3 U, 84 HP, 255 mm deep, height: 132.55 mm + 7.5 mm feed (removable), width: 482.60 mm, (housing with cover, without handle) total depth: 255.5 mm  Power supply PSU25W (19" plug-in unit, height: 3 U, width: 10 HP): Line input: universal 90-250 V, 50-60 Hz TTL input for enabling or disabling: Connector: BNC female socket, 50 Ω, Input level: TTL, Polarity selection: slide switch inside the module Indicator: multicolor LED (green = power on, yellow = device disabled)	1	1.290,00 €	1.290,00 €
2	<b>AMX500HDFLNM</b>  Universal Digitally-Controlled Analog Switch/Multiplexer for voltages up to 500 V  19" plug-in unit, height: 3 U, width: 6 HP Control input: BNC female socket, 50 Ω, Input level: TTL or digital signal at the system connector (option D) Switch terminals: 3 SHV sockets, galvanically isolated RC filter at switch output (option F) Monitor output: BNC socket, attenuation 1:1000 (option M) Low-noise DC/DC converters for internal voltages (option LN) High-voltage isolation of the switch circuitry (option H) Indicator: multicolor LED (red = output positive, blue = output negative) Polarity selection: slide switch inside the module Maximum voltage across the switch: 500 V Maximum voltage at any switch terminal with respect to ground: ±1.5 kV Propagation delay: 60 ns typ., 75 ns max. Switching times at nominal voltage w/o load: 10 ns typ., 20 ns max. Minimum pulse duration: <50 ns Heatsink: passive	2	740,00 €	1.480,00 €

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Pos.	Art. No. / Art. Description	Qty	Price per unit	Subtotal
3	<b>AMX50HDFLNM</b> Universal Digitally-Controlled Analog Switch/Multiplexer for voltages up to 50 V Parameters as Pos. 2, except for the following: Maximum voltage across the switch: 50 V Monitor output: BNC socket, attenuation 1:100 (option M)	1	640,00 €	640,00 €
4	<b>AMX1500HDFLNM</b> Universal Digitally-Controlled Analog Switch/Multiplexer for voltages up to 1500 V Parameters as Pos. 2, except for the following: Maximum voltage at any switch terminal with respect to ground: $\pm 3$ kV Switching times at nominal voltage w/o load: 35 ns typ., 50 ns max. Minimum pulse duration: <70 ns Propagation delay: 95 ns typ., 120 ns max.	2	755,00 €	1.510,00 €
5	<b>19-DIO-4</b> Three Digital Outputs and One Digital Input/Output with TTL levels 19" plug-in unit, height: 3 U, width: 6 HP Control: digital signals at the system connector Terminals: 4 BNC female sockets, 50 $\Omega$ Voltage levels: Outputs: 5-V CMOS, Input: TTL Output impedance: 50 $\Omega$	2	200,00 €	400,00 €
6	<b>PULS-CTRL24</b> 19-Controller-DAS.1-11 24 digital pulse generators, 1 digital oscillator resolution: 10 ns, length: 32 bit (delay up to 42.9 s) arbitrary configuration by selectable 32 trigger and 32 output sources control of 6 signal switches and 5 digital I/O modules 6 monitoring outputs connectors: LEMO signal level: TTL, log. 0: 0..0.4 V, log. 1: 2.4..5.0 V output impedance: 50 $\Omega$ non-volatile memory (NVM) data space: 256 KB maximum number of stored configurations: 500 USB interface according to USB 2.0 standard connector: USB plug type B data transfer rate: up to 12 MBit/s ( <i>Full Speed</i> ) effective data transfer rate: >100 kBit/s	1	520,00 €	520,00 €

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Pos.	Art. No. / Art. Description	Qty	Price per unit	Subtotal
7	Probe-1.0M Cable and adapter box for the monitor outputs Input: BNC female socket, 50 Ω Output: BNC male pin, 50 Ω Nominal load: 1.0 MΩ + 10-30 pF Signal form adjustment: variable capacitor in the adapter box Cable: RG71 (93 Ω, 43 pF/m), connectors: BNC 75 Ω, length: 1.0 m	2	185,00 €	370,00 €
8	Cover-1Ch Cover plates for one unoccupied channel, height: 3 U, width: 6 HP	3	8,00 €	24,00 €
9	19-HV-AMP1K-12DB power supply unit 24 x ±1 kV consisting of:	1	34.690,00 €	34.690,00 €
10	HV-PSU1K-R12 base device with backplanes for 12 PSU modules HV-AMP1K-2DB and 1 device controller HV-AMP-CTRL-12 on the front and PSU modules on the rear side other components: mains transformer, cooling fan case: 19"-housing ratiopacPRO height: 3U (132,5 mm), depth: 435 mm, rack-mount line input: 115/230 V, 50-60 Hz, connector: IEC inlet C14	1		
11	HV-AMP1K-2DB power supply module with 2 amplifier channels output voltage: ±1 kV output current: ±1 mA output connectors: SHV sockets amplified control: 16-bit D/A converter output voltage monitoring: 16-bit A/D converter	12		
12	HV-AMP-CTRL-12 device controller with an FPGA and a 16-bit RISC CPU functionality: device monitoring and supervising, controlling the PSU modules HV-AMP1K-2DB interface: USB, connector: USB type B interlock: connector: BNC female socket	1		
13	HV-RECT1K rectifier for the PSU module HV-PSU-1K	2		

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Pos.	Art. No. / Art. Description	Qty	Price per unit	Subtotal
14	19-HV-SMPS-2x500+2500UHP Precise high-voltage regulators 2 x 500 V and 1 x 2500 V consisting of:	1	22.910,00 €	22.910,00 €
15	HV-SMPS-3 base device for 3 modules HV-SMPS-UHP and 1 controller case: 19"-housing ratiopacPRO, height: 3U (132,5 mm), depth: 255 mm, rack-mount other components: mains transformer, cooling fan Interlock-BNC line input: 115/230 V, 50-60 Hz, connector: IEC inlet C14	1		
16	HV-SMPS-500UHP precise high-voltage regulator 500 V	2		
17	HV-SMPS-2500UHP precise high-voltage regulator 2500 V	1		
18	HV-PSU-CTRL-3 device controller with an FPGA and a 16-bit RISC CPU functionality: device monitoring and supervising, controlling the precise high-voltage regulators HV-SMPS-UHP interface: USB, connector: USB type B interlock: connector: BNC female socket	1		
19	LV-PSU-AD low-voltage power supply module output voltages: ±15 V for analog circuits +12 V, +5 V and +3.3 V for digital circuits total output power: about 25 W	1		

Subtotal: 63.834,00 €

Packaging and shipping costs (estimated): 0,00 €

Total before taxes: 63.834,00 €

Tax (without VAT = MwSt.): 0,00 €

**Total: 63.834,00 €**

Your VAT Number: CZ61388955  
Offer validity: till 31-Aug-2022  
Delivery terms: CIP Chemnitz - Praha (Incoterms 2010)

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Form of payment: 50% prepayment, within 30 days after date of invoice  
Delivery time according to the arrangement  
Due to the current market situation for electronic components and in general, we can only inform the buyer about the estimated delivery date when the current material prices and delivery times are available to us. Since this information is currently only valid for a maximum of one day, no predictions can be made before the order has been placed.

The recipient will take care of the disposal of the equipment at the end of its service life.

Consider our "Terms and Conditions of Business"  
(available only in German at <http://www.cgc-instruments.com/AGB>)

We look forward to your order!