**ORDER DESCRIPTION**

1. **Object of the contract**

The subject of the contract is a Precision Peltier Temperature Controller in the amount of

* Stepper & DC Motor Controller 1 pcs.
1. **The scope of the subject of the contract**

A detailed description of the subject of the contract is provided in section 5 of this document.

1. **Criterion**

Offers will be evaluated according to a point scale with a maximum number of points of 100.

| Criterion | Maximum number of points S | Method of awarding points |
| --- | --- | --- |
| Net Price (P) | 100 | S x Pmin/Pi |

Where:

* Pi – the net price of goods - for the given offer
* Pmin - the minimum delivery net price for the ordered goods from all offers submitted
* S – number of points

The final score will be calculated by adding up the partial components and then rounded to two decimal places (rounded from "5" up).

1. **Deadline for completing the order**

**As soon as possible, no later than 3 weeks from the date of placing the order. Deadline for completion of the order includes readiness to hand over the goods to the Ordering Party, which complies with application of the EXW Incoterms2020 principle.
According to the EXW (ex works) principle, the moment of delivery of the goods is considered to be the moment of placing the goods at the disposal of the buyer at place indicated by the supplier (factory, plant etc.).
The Ordering Party shall accept application of other Incoterms2020 principles (such as FCA, DAP etc.), on condition that the Contractor will meet the deadline for completion, as referred to above.**

1. **Parameters**

**5.1 Detailed scope of the subject**

| Product name | Parameter | Specification |
| --- | --- | --- |
| Stepper & DC Motor Controller  | Number of axes | 2 |
| Motor parameters | Motor type: stepperCurrent: 0,1- 3 AVoltage: 2-48 Vdc |
| Motor kinematics | Step division 1-1/256Maximum speed 35000 steps/s |
| Motion control | Motion modes: move left/right, move to point, shift on delta, continuous speed, acceleration and deceleration ramps, backlash compensation mode, automatic home position calibration mode, linear interpolation, circular interpolation |
| Control loop | Open loop, closed loop |
| Compensation | Backlash compensation: IncludedStep loss compensation: Included |
| Positioner sensors reading | Encoder (rotary):Incremental quadrature encoder (TTL, RS422 up to 5MHz)Limit switches: optron, hall sensor, microswitchRevolution sensor: supported |
| Communication interfaces | Ethernet, USB, RS232 |
| Input/Output | Synchronization I/O: includedJoystick Analog input (0-3V)Output: +3V; +5V for power supplying |
| Position counter | 40 bit |
| Protections | SD protection, Current overload protection, Voltage overload protection, Short circuit protection, Motor hot plug/unplug protection |
| Operating temperature | Up to 70 degrees |
| Programming | C++, C#, .NET, Delphi, Visual Basic, gcc, Xcode, Matlab, Java, LabVIEW, Python |