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Dear friends! The following is our product quotation, please refer to it, we sincerely hope to cooperate with you, our company will excellent quality, the most reasonable price, the best quality service to achieve your 100% satisfaction.

NO.	Picture	Product name	Brand	Model	Product parameters	(USD/PCS)
<b>Sensors for agriculture</b>						
1		Soil Temperature and Moisture Sensors	NiuBoL	NBL-S-TM	Temperature Range: -40~80°C. Resolution: 0.1°C. Accuracy: ±0.5°C Moisture Range:0~100%RH Resolution: 0.1%RH Accuracy: ±5% Power supply: DC5V-24V or DC 12-24V Output: RS485 Protection class: IP68	38.57
2		Soil Temperature and Moisture Sensor (round type)	NiuBoL	NBL-S-THR	Temperature Range:-50~100°C. Resolution: 0.1°C. Accuracy: ±0.5°C Moisture Range:0~100%RH Resolution: 0.1% Accuracy: ±3% Power supply: DC12-24V Output: RS485/4~20mA; Operating environment: -40°C~80°C; Protection class: IP68 Principle: TDR	88.19
3		3-in-1 Soil Temperature, Moisture and Conductivity Sensor	NiuBoL	NBL-S-TMC	Temperature Range: -40~80°C. Resolution: 0.1°C. Accuracy: ±0.5°C Moisture Range: 0~100%RH Resolution: 0.1%RH Accuracy: ±5% Conductivity Range:0-10000us/cm Resolution: 0-10000us/cm within 1us/cm Accuracy: ±5% within 0-10000us/cm Power supply: DC5V-24V or DC 12-24V Output: RS485 Modbus Protection class: IP68	65.82




4		4-in-1 Soil Temperature, Moisture, Conductivity and Salinity Sensor	NiuBoL	NBL-S-TMCS	<p>Temperature Range: -40~80°C.  Resolution: 0.1°C.  Accuracy: ±0.5°C  Moisture Range: 0~100%RH  Resolution: 0.1%RH  Accuracy: ±5%  Conductivity Range:0-10000us/cm  Resolution: 0-10000us/cm within 1us/cm  Accuracy: ±5% within 0-10000us/cm  Salinity Measuring range: 0- 8000mg/L;  Resolution: 1mg/L  Power: DC 12-24V  Output: RS485 Modbus  Protection class: IP68</p>	69.29
5		7-in-1 Soil Integration Sensor	NiuBoL	NBL-S-TMC-7	<p>Supply Voltage: DC 5-24V  Output: RS485  Temperature range: -40-80°C  Temperature accuracy: ±0.5°C  Moisture range: 0%-100%RH  Moisture accuracy: ±3%  Conductivity range: 0-10000us/cm  Conductivity Accuracy: ±10%  NPK range: 0-2000mg/Kg  Accuracy of NPK: ±2%  PH range: 3-10pH  PH precision: ±0.6pH  Protection class: IP68  Remark: Soil NPK sensor actually measures the electrical conductivity of the soil.</p>	78.74
6		8-in-1 Soil Integration Sensor	NiuBoL	NBL-S-TMC-8	<p>Supply Voltage: DC 5-24V  Output: RS485  Temperature range: -40-80°C  Temperature accuracy: ±0.5°C  Moisture range: 0%-100%RH  Moisture accuracy: ±3%  Conductivity range: 0-10000us/cm  Conductivity Accuracy: ±10%  NPK range: 0-2000mg/Kg  Accuracy of NPK: ±2%  PH range: 3-10pH  PH precision: ±0.6pH  Salt range: 0-5500mg/L  Salt precision: ±10%  Protection class: IP68  Remark: Soil NPK sensor actually measures the electrical conductivity of the soil.</p>	86.61




7		Soil NPK Sensor	NiuBoL	NBL-S-NPK	<p>Range: 0-2000mg/kg  Resolution: 1mg/kg (mg/l)  Accuracy: ±2%F.s  Power supply: DC12V/ DC12-24V  Output: RS485  Dimensions: 45*15*135mm  Working environment:  -40~85°C  Sealing Material: Black Epoxy  Calculated from conductivity  Protection class: IP68  Remark: Soil NPK sensor actually measures the electrical conductivity of the soil.</p>	65.29
8		Soil PH Sensor	NiuBoL	NBL-S-PH	<p>Measuring Range: 0-14pH  Accuracy: ±0.1pH;  Resolution: 0.01pH;  Response time: &lt;10 seconds (in water);  Power supply: DC12V-24V;  Output form: 4~20mA/ RS485;  Instrument cable length: 5 meters;  working environment: 0~80°C/ 0~95%RH  Transmitter size: 98*66*49mm  Protection class: IP68</p>	127.56
9		Leaf Temperature and Humidity Sensor	NiuBoL	NBL-W-LM	<p>Temperature range: -40-80°C  Temperature accuracy: ±0.5°C  Humidity range: 0-100%RH  Humidity Accuracy: ±5%RH  Operating Environment: -40-85°C  Power: DC 12V-24V  Output: RS485  Baud rate: 9600bps  Protection class: IP65</p>	96.26
10		Fruit Growth Sensor	NiuBoL	NBL-W-FGS	<p>Power: DC12-24V  Signal output: RS485/4-20mA/0- 5V  Measuring range:  A:0-50mm  B:0-100mm  C:0-150mm  D:0-250mm  Accuracy: ±1%  Working temperature: -40-80°C  Working humidity:0-95%RH  IP rate :IP65</p>	515.87

11		Multi depth soil moisture sensor	NiuBoL	NBL-S-MSMS-4D	<p>Soil moisture measurement range:  Field measurement accuracy: <math>\pm 5</math> per cent.  Moisture resolution: 0.1%;  Temperature measurement range: <math>-40^{\circ}\text{C} \sim 80^{\circ}\text{C}</math>, the  Measurement accuracy: <math>\pm 0.5^{\circ}\text{C}</math>.  Temperature resolution: <math>0.1^{\circ}\text{C}</math>;  Power supply: DC12~24V  Communication mode: RS485 , MODBUS  Sensing range: 99% is read from the outside of the tube within 10cm;  Shell protection level:  Ground part: IP67;  Below ground: IP68;  With multi-depth moisture, temperature change measurement capability, standard node: 10cm, 20cm, 30cm, 40cm, depth, real-time monitoring;</p>	515.87
12		Multi depth soil moisture sensor	NiuBoL	NBL-S-MSMS-6D	<p>Soil moisture measurement range:  Field measurement accuracy: <math>\pm 5</math> per cent.  Moisture resolution: 0.1%;  Temperature measurement range: <math>-40^{\circ}\text{C} \sim 80^{\circ}\text{C}</math>, the  Measurement accuracy: <math>\pm 0.5^{\circ}\text{C}</math>.  Temperature resolution: <math>0.1^{\circ}\text{C}</math>;  Power supply: DC12~24V  Communication mode: RS485 , MODBUS  Sensing range: 99% is read from the outside of the tube within 10cm;  Shell protection level:  Ground part: IP67;  Below ground: IP68;  With multi-depth moisture, temperature change measurement capability, standard node: 10cm, 20cm, 30cm, 40cm, 50cm, 60cm depth, real-time monitoring;</p>	680.95
13		Multi-parameters Handheld Tester	NiuBoL	NBL-S-HS	<p>Support tests: soil temperature, humidity, salinity, conductivity, PH;  Power supply: Lithium- ion battery (4000mA.h)  Communication:USB  Storage: 20,000 pieces of data  Host size: 100×200×28 mm  Whole machine: 405×100×100 mm  Host weight: about 0.5Kg  Host with box weight: about 3Kg  Working environment: <math>20^{\circ}\text{C} \sim 80^{\circ}\text{C}</math>; 5%RH~95%RH</p>	275.00

**Accessories**

1		Industrial Routers (Data logger)		<p>TR341</p> <p>SIM Slot: 1, or 2 (For DSSM)  Ports: 5-RJ45 (1-WAN, 4-LAN or 5-LAN)  Data Rate:10/100 Mbps (Auto-Sensing), Auto MDI/MDIX  Ports: 1-RS232 + 1-RS485  GPS (Optional)  Standard Power:DC 12V/1.5A  Input Voltage:5-35 VDC  Network Protocols:PPP, PPPoE, SNMP v1/v2c/v3, TCP, UDP, DHCP, RIPv1/v2, OSPF, DNS, DDNS, HTTP, ARP, QoS, SNTP, Telnet, VLAN, SSH  Serial Port: MQTT, Transparent (TCP Client/Server, UDP Client/Server), Modbus Gateway (Modbus RTU to Modbus TCP)  Dimensions:168 x 104 x 27mm (6.61 x 4.09 x 1.06 in)  Mounting: Desktop, Wall mount  IP30  Metal, 790 g(1.74lbs)</p>	133.49
2		IoT Gateway (Data collector)		<p>TG451</p> <ul style="list-style-type: none"> <li>● 1-RS232, 1-RS485, 5-RJ45, 1-USB, 2-DI, 2-DO, WIFI, SD*, GPS*</li> </ul> <p>External Storage:</p> <ul style="list-style-type: none"> <li>●USB Port: 1 x USB 2.0</li> <li>●SD (Optional): 1 x Micro SD interface, Up to 32G</li> <li>● LTE CAT 6 and CAT 4 compatible*</li> <li>● LTE CAT 6 and CAT 4 compatible*</li> <li>●Network Protocols: PPP, PPPoE, SNMP v1/v2c/v3, TCP, UDP, DHCP, RIPv1/v2, OSPF, DNS, DDNS, HTTP, ARP, QoS, SNTP, Telnet, VLAN, SSH MQTT, Transparent (TCP Client/Server, UDP Client/Server), Modbus Gateway (Modbus RTU to Modbus TCP)</li> </ul> <p>*LTE CAT 6, Dual SIM, Dual Module, SD or GPS are option features or from customized firmware</p> <p>Power Requirements</p> <ul style="list-style-type: none"> <li>● Standard Power: DC 12V/1.5A</li> <li>● Input Voltage: 5-35 VDC</li> <li>● Ingress Protection: IP30</li> <li>● Housing &amp; Weight: Metal, 790 g</li> <li>● Dimensions: 145 x 114 x 45mm</li> <li>● Mounting: Desktop, DIN-Rail</li> </ul>	178.58

3		IoT Edge Gateway (Data collector)		TG452	<ul style="list-style-type: none"> <li>● CPU: 32-bit ARM Cortex A7, 528MHz</li> <li>● Flash: 256MB(Extendable to 1GB) *</li> <li>● Memory: 256MB DDR3</li> <li>● 4-RJ45, 2-RS232, 3-RS485, 2-DI, 2-DO, 2-ADC, 1-SD, 1-CAN*, WIFI*, GPS*</li> <li>● C/C++, Python, Node-RED programmable*</li> <li>● Capacity of collecting, processing and storing data locally, and transfer the data over cellular network</li> </ul> <p>Power Requirements</p> <ul style="list-style-type: none"> <li>● Standard Power: DC 12V/1.5A</li> <li>● Input Voltage: 5-35 VDC</li> <li>● Ingress Protection: IP30</li> <li>● Housing &amp; Weight: Metal, 790 g</li> <li>● Dimensions: 145 x 114 x 45mm</li> <li>● Mounting: Desktop, DIN-Rail</li> </ul>	312.35
4		Touch Screen IoT Edge Gateway (Data collector)		TG462	<ul style="list-style-type: none"> <li>● High-performance ARM-based CPU</li> <li>● 2-RJ45, 3-RS232, 3-RS485, 4-DI, 8-ADC, 4-Relay, 5-Power Output, 1-I2C, 1-TTL, USB, GPS* and WIFI*</li> <li>● Standard USB, can be connected to a USB flash drive for data storage</li> <li>● LCD screen: 7" HD Touch screen display (optional)</li> <li>● Up to 1GB flash, 1-Micro SD card supports up to 32GB data and program storage</li> <li>● LTE CAT 6/CAT4* provides ample bandwidth for high data demand</li> <li>● C/C++, Python, Node-RED programmable*</li> <li>● Capacity of collecting, processing and storing data locally, and transferring the data over cellular network</li> </ul> <p>Optional function: WIFI/GPS</p> <p>Power Requirements</p> <ul style="list-style-type: none"> <li>● Standard Power: DC 12V/1.5A</li> <li>● Input Voltage: 5-35 VDC</li> <li>● Ingress Protection: IP30</li> <li>● Mounting: Desktop, DIN-Rail</li> </ul>	398.53
5		Solar power supply system		NBL-282-GD83	Including solar controller solar panel 60W lithium battery 30AH power cable	257.15

6	 <p>3 meter mounting bracket</p>	Mounting brackets		NBL-282-ZJ3	3 meters galvanized steel pipe (1.2 M + 1.8 M) Pre-embedded parts included	125.81
7		Lightning protection devices		NBL-282-FL	Lightning rod + Steel plate + lightning rod	82.53
8		Protective box		PH-282-FHX	For mounting data loggers or power systems	72.35

**Remark:**

- 1、Buyer's freight;
- 2、Spare parts beyond contract need extra charge;
- 3、Erms of Price:EXW price ;