

Số: 514/NMĐSH1-KTATMT

Hậu Giang, ngày 01 tháng 04 năm 2025

V/v cung cấp báo giá “VTTT phần C&I-  
GT2024-203 - BS 28”

**Kính gửi: Các nhà cung cấp**

Chi nhánh phát điện Dầu khí/Nhà máy Nhiệt điện Sông Hậu 1 (NMNĐ Sông Hậu 1) đang có nhu cầu triển khai mua sắm “VTTT phần C&I-GT2024-203 - BS 28”. NMNĐ Sông Hậu 1 đề nghị Quý Công ty quan tâm, nghiên cứu và cung cấp báo giá cho hàng hóa nói trên với nội dung như sau:

1. Phạm vi công việc:
  - Danh mục hàng hóa: như Phụ lục Đính kèm;
  - Hàng hóa mới 100%, bảo hành tối thiểu 12 tháng;
  - Sản xuất từ năm 2024 trở lại đây hoặc nhà thầu đề xuất (có thư xác nhận của nhà sản xuất).
  - Các vật tư/thiết bị nhà thầu chào phải có tài liệu của nhà sản xuất, CO và CQ hoặc các tài liệu có giá trị tương đương cung cấp bởi nhà sản xuất/Cơ quan có thẩm quyền;
  - Nhà thầu báo giá dựa trên xuất xứ của phụ lục: “Danh mục hàng hóa”, trong trường hợp vật tư/thiết bị có nguồn gốc xuất xứ khác thì phải có thư xác nhận của nhà sản xuất.
2. Tiến độ cung cấp: Nhà thầu đề xuất tiến độ tốt nhất để Nhà máy xem xét.
3. Địa điểm giao hàng: Nhà máy Nhiệt điện Sông Hậu 1, Ấp Phú Xuân, Thị trấn Mái Dầm, Huyện Châu Thành, Tỉnh Hậu Giang.
4. Hiệu lực báo giá: 90 ngày kể từ ngày chào giá.
5. Thời gian gửi báo giá: trước 17h00 ngày 15/04/2025.
6. Phương thức gửi báo giá: gửi trực tiếp/bưu điện theo địa chỉ tiếp nhận báo giá hoặc qua email, fax.

7. Thông tin liên hệ:

Người nhận: Phòng KTATMT - NMNĐ Sông Hậu 1.

Địa chỉ: ấp Phú Xuân, thị trấn Mái Dầm, huyện Châu Thành, tỉnh Hậu Giang.

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NMNĐ Sông Hậu 1 cảm ơn sự hợp tác của Quý Công ty.

**Nơi nhận:**

- Như trên;
- Giám đốc Nhà máy (đề b/c);
- Phòng: TM, KHTC;
- Lưu VT, KTATMT (T.N.T).

**TL. GIÁM ĐỐC CHI NHÁNH PĐDK  
KT. GIÁM ĐỐC NMNĐ SÔNG HẬU 1  
PHÓ GIÁM ĐỐC**



Nguyễn Văn Chính

**PHỤ LỤC : DANH MỤC HÀNG HÓA**  
(Đính kèm Công văn số 514/NMĐSH1-KTATMT ngày 01 tháng 04 năm 2025)

STT	Tên vật tư/mô tả	Ordering information (Part N0)	Thông số kỹ thuật	Nhà Sản xuất	Xuất xứ	Số lượng	Đơn vị
1	Time Synchronization module	6GK60838AC210BC0-ZA00	The RUGEDCOM RMC8388 is a time converter that can convert time signals between PTP (IEEE 1588) and IRIG-B. Supports RJ45 and LC for Ethernet and BNC for IRIG-B/PPS. Power Supply: 24 (11 - 36) VDC Mounting Option : Din Rail Mounting Conversion Variant : IRIG-B AM in, IEEE 1588 out Ethernet Port Option : 100TX, RJ45	Siemens	Châu Âu/OECD	1	pcs
2	Power supply	6EP1334-1LD00	PSU100D 24 V/14.6 A stabilized power supply Input: 100-120 V/200-240 V AC Output: 24 V DC/14.6 A	Siemens	Châu Âu/OECD/ASEAN	1	pcs
3	Display Panel	A47833-1	GENETIX COLOR INTERFACE W/ TOUCH PANEL Part number: A47833-1	Merrick	Châu Âu/OECD	3	pcs
4	Power Amplifiers	EEA-PAM-553-D-32-EN27	Part No: EEA-PAM-553-D-32-EN27	Vickers/EATON	Châu Âu/OECD	1	pcs
5	Transmitter for angular position	TGM 5	- Range: 0...15/75° - BA/Code: 303 - Power supply: 13,2...36VDC/13.2...26,4VAC. - Ouput current: 4-20 mA 4-wire)	ABB	Châu Âu/OECD	1	pcs
6	Temperature Transmitter	644HANAJ2M5Q4	- Temperature transmitter - Transmitter type: DIN A Head Mount - Single - Output: 4-20 mA with digital signal based on HART protocol - Enclosure options + Housing style: Universal junction box, 3 entries + Material: Aluminum + Entry size: 1/2 NPT + Diameter: 3.5-in. (89 mm) - Display and interface options: LCD display - Calibration certificate: Calibration certificate (3-point calibration with certificate)	EMERSON	Châu Âu/OECD	1	set
7	HMI	6AV2124-0UC02-0AX0	SIMATIC HMI TP1900 Comfort, Comfort Panel, touch operation, 19" widescreen TFT display, 16 million colors, PROFINET interface, MPI/PROFIBUS DP interface, 24 MB configuration memory, Windows CE 6.0 - Product type designation: TP1900 Comfort - Display: + Design of display TFT + Screen diagonal 18.5 in + Display width 409.8 mm + Display height 230.4 mm + Number of colors 16 777 216 - Resolution (pixels) + Horizontal image resolution 1 366 pixel + Vertical image resolution 768 pixel	Siemens	Châu Âu	1	pcs

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STT	Tên vật tư/mô tả	Ordering information (Part No)	Thông số kỹ thuật	Nhà Sản xuất	Xuất xứ	Số lượng	Đơn vị
8	Power supply	1478130000	Part No: 1478130000 AC input voltage range: 85...277 V AC DC input voltage range: 80...370 V DC Frequency range AC: 45...65 Hz Input fuse (internal): Yes Inrush current max: 15 A Output power: 240 W Nominal output current for Unom: 10 A @ 60 °C Output voltage, max: 29.5 V Output voltage, min: 22.5 V Rated output voltage: 24 V DC ± 1 %	Weidmüller		1	pcs
9	Diode module	1222210000	Part No: 1222210000 DC input voltage range 18...30 V DC Input current 2 x 10 A or 1 x 20 A Rated input voltage 24 V DC Output Continuous output current @ UNominal 24 A @ 45 °C, 22.5 A @55 °C, 15 A @ 70 °C Nominal output current for Unom 20 A @ 60 °C Output current, max. 24 A Rated output voltage 24 V DC ± 1 % Switching thresholds 21.6 V DC, relay is on for Power Good, 20.4 V DC, relay is off for Power Fail Voltage monitoring Yes, In both inputs	Weidmüller		1	pcs
10	Limit Switch	LSA3K	Limit Switch LSA3K	Honeywell		2	pcs
11	Power supply	1469510000	Part No: 1469510000 - Input + AC input voltage range: 85...264 V AC + DC input voltage range 80...370 V DC + Frequency range AC: 47...63 Hz + Input fuse (internal) Yes + Inrush current max. 5 A + Rated input voltage: 100...240 V AC - Output + Nominal output current for Unom: 20 A @ 55 °C + Output power 480 W + Output voltage, max. 28 V + Output voltage, min. 22 V - Overload protection: Yes - Protection against inverse voltage: Yes - Rated output voltage 24 V DC ± 1 %	Weidmüller		1	pcs
12	Diode module	8768650000	Part No: 8768650000 Input Input current: 2 x 0...20 A max Input voltage (voltage mode input): 40 V DC max. Output Output current 0...40 A max. or 20 A max. for redundant operations Output power 960 W Output voltage: Uen - 0.5 V typ.	Weidmüller		1	pcs



STT	Tên vật tư/mô tả	Ordering information (Part N0)	Thông số kỹ thuật	Nhà Sản xuất	Xuất xứ	Số lượng	Đơn vị
13	Switch	6GK5208-0BA10-2AA3	<p>SCALANCE X208, managed IE switch, 8x 10/100 Mbps RJ45 ports, LED diagnostics, error-signaling contact with set pushbutton, redundant power supply, PROFINET IO device, network management, redundancy manager integrated, including electronic manual on CD-ROM, C-PLUG optional</p> <ul style="list-style-type: none"> <li>- Transfer rate 10 Mbit/s, 100 Mbit/s</li> <li>- Number of electrical connections for network components or terminal equipment: 8</li> <li>- Number of 10/100 Mbit/s RJ45 ports / integrated with securing collar: 8</li> <li>- Number of electrical connections: ● for signaling contact 1; ● for power supply 1</li> <li>- Operating voltage / of the signaling contacts: ● at DC / rated value: 24 V</li> <li>- Operational current / of the signaling contacts: ● at DC / maximum: 0,1 A</li> <li>- Supply voltage / 1 / rated value: 24 V</li> </ul>	Siemens	Châu Âu	1	pcs
14	Temperature Transmitter	YTA70-J	<ul style="list-style-type: none"> <li>- Supply &amp; Load Requirements: Voltage</li> <li>+ 8 to 35 V DC for operation</li> <li>+ (8 to 30 V DC for Intrinsically safe type)</li> <li>+ 13.8 to 35 V DC for digital communication</li> <li>- Temperature Transmitter (Head Mount Type)</li> <li>- Output Signal: 4 to 20 mA DC with digital communication (HART 5/HART 7 protocol)</li> <li>- Input Type: 3 wire RTD.</li> <li>- Output: Two wire 4 to 20 mA DC</li> <li>- Ambient Temperature Limits: -40 to 85°C (-40 to 185°F)</li> <li>- Material: Polycarbonate</li> <li>- Mounting: DIN form B head mounting</li> <li>- Terminals: M3 screws</li> </ul>	YOKOGAWA		2	pcs
15	Air Flow Sensor	D-SK F3-2	<ul style="list-style-type: none"> <li>- Part no: 1116957</li> <li>D-SK F3-2 Flow sensor - with cable L=2m</li> </ul>	DURAG	Châu Âu	2	pcs
16	Hydraulic Actuator	MV10400	<ul style="list-style-type: none"> <li>- Model: MV10400</li> <li>- IP Grade: IP68</li> <li>- Power: 220VAC, 60Hz</li> <li>- Ambient Temp: -25C to 55C</li> <li>- Phải thích hợp để thay thế cho Actuator model MV10400, Serial No: AVT-2021-01-004, của hãng AVTEC hiện hữu tại nhà máy điện Sông Hậu 1</li> </ul>	AVTEC	OECD	1	set
17	Hydraulic Actuator	MV10800	<ul style="list-style-type: none"> <li>- Model: MV10800</li> <li>- IP Grade: IP68</li> <li>- Power: 220VAC, 60Hz</li> <li>- Ambient Temp: -25C to 55C</li> <li>- Phải thích hợp để thay thế cho Actuator model MV18400, Serial No: AVT-2021-01-009, của hãng AVTEC hiện hữu tại nhà máy điện Sông Hậu 1)</li> </ul>	AVTEC	OECD	1	set
18	Zirconia Cell	E7042UD hoặc ZR01A01-01	Part .No: ZR01A01-01 Hoặc E7042UD	YOKOGAWA	OECD	3	pcs
19	Transmitter LCD Display	Part Number: 03031-0199-0001	Part Number: 03031-0199-0001	Emerson		20	pcs
20	Air Pilot Actuated Valves	NF3PAN520N00000	<ul style="list-style-type: none"> <li>- Valve Series: Poppet for Compressed Air</li> <li>- Port Size: 3/8"</li> <li>- Valve Actuator: Air pilot with spring return</li> <li>- Valve Function: 2 Position 3-way Normally Closed (non-passing)</li> <li>- Mounting: Line mounted (ports in valve body)</li> <li>- Wiring Options: No wiring - Air piloted</li> <li>- Port Type: NPTF Pressure ports</li> <li>- Special Options: No Option</li> <li>- Voltage: Air Pilot</li> </ul>	Numatics		2	pcs



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21	Pressure Transmitter	2051TG3A2B21AS5B4 M5T1Q4+0306RT22B A11	<p>Transmitter</p> <ul style="list-style-type: none"> <li>- Type: In-Line Pressure Transmitter</li> <li>- Pressure type: Gage</li> <li>- Pressure range: -14.7 to 800 psi (-1.0 to 55 bar)</li> <li>- Transmitter output: 4-20 mA with digital signal based on HART® Protocol</li> <li>- Process connection style: ½-14 NPT female</li> <li>- Isolating diaphragm: 316L SST</li> <li>- Sensor fill fluid: Silicone</li> <li>- Housing material: Aluminum</li> <li>- Manifold assemblies: Assemble to Rosemount 306 Integral Manifold</li> <li>- Mounting bracket: Bracket for 2-in pipe or panel mounting, all SST</li> <li>- Display and interface options: LCD display</li> <li>- Terminal blocks: Transient protection terminal block</li> <li>- Calibration certification: Calibration certificate</li> </ul> <p>Manifold</p> <ul style="list-style-type: none"> <li>- In-line manifold</li> <li>- Manifold style: Threaded</li> <li>- Manifold type: Two-valve</li> <li>- Material of construction: +Body: 316/316L SST; +Bonnet: 316 SST; +Stem and tip/ball: 316 SST</li> <li>- Process connection: ½ in - 14 female NPT process connection x ½ in -14 male NPT instrument connection for in-line transmitter</li> <li>- Packing material: PTFE</li> <li>- Valve seat: Integral</li> </ul>	Emerson	Châu Âu/OECD/ASEAN	1	pcs
22	Flow Transmitter	3051S2CD2A2A11A1 AC1D4L2M5P0Q4T1 + 0305RC52B11	<p>Transmitter</p> <ul style="list-style-type: none"> <li>- Scalable pressure transmitter</li> <li>- Performance class: Classic: 0.035% span accuracy, 150:1 rangedown, 15-yr stability</li> <li>- Connection type: Coplanar</li> <li>- Measurement type: Differential</li> <li>- Pressure range: -250 to 250 inH2O (-621,60 to 621,60 mbar)</li> <li>- Isolating diaphragm: 316L SST</li> <li>- Process connection: Assemble to Rosemount 305 integral manifold</li> <li>- Transmitter output: 4-20 mA with digital signal based on HART protocol</li> <li>- Housing style: PlantWeb housing</li> <li>- Software configuration: Custom software configuration (requires Configuration Data Sheet)</li> <li>- Ground screw: External ground screw assembly</li> <li>- O-ring: Graphite-filled PTFE O-ring</li> <li>- Display type: PlantWeb LCD display</li> <li>- Maximum static line pressure: 6092 psig (420 bar) static pressure limit</li> <li>- Calibration certification: Calibration certificate</li> <li>- Transient protection: Transient terminal block</li> </ul> <p>Manifold</p> <ul style="list-style-type: none"> <li>- Integral manifold</li> <li>- Manifold style: Coplanar</li> <li>- Manifold type: Five-valve</li> <li>- Materials of construction: +Body: 316 SST/316L SST; +Bonnet: 316 SST; + Stem and tip/ball: 316 SST</li> <li>- Process connection style: ½-14 NPT female</li> <li>- Packing material: PTFE</li> <li>- Valve seat: Integral</li> </ul>	EMERSON	Châu Âu/OECD/ASEAN	1	pcs
23	Temperature Transmitter	248RANAQ4	<p>Part No: 248RANAQ4</p> <ul style="list-style-type: none"> <li>- Type: Rail mount temperature transmitt</li> <li>- Output protocol: 4-20 mA with digital signal based on HART Protocol</li> <li>- Product certifications: No Approvals</li> <li>- Calibration certificate: Calibration certificate (3-point calibration)</li> <li>- Accuracy : ±0.1% of Span</li> <li>- Output Signal : TWO-WIRE(HART)</li> <li>- Power Supply : 12 - 42.4 VDC</li> <li>- Sensor connections: 2-wire RTD; 3-wire RTD; 4-wire RTD; TC</li> </ul>	EMERSON	Châu Âu/OECD/ASEAN	7	pcs



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24	Load cell	CXG-T200	Part No: CXG-T200 - Rated capacity(R.C): 200tf - Rated output(R.O): 1.5mV/V±0.1% - Nonlinearity: 0.5% of R.O - Hysteresis: 0.5% of R.O - Repeatability: 0.1% of R.O - Zero balance: ±1% of R.O - Terminal resistance input: 350±5W - Insulation resistance bridge/case: 5000MW - Excitation recommended: 10V - Safe overload: 150% R.C - Cable length: Ø7mm 4core, 3m	Dacell	OECD	4	pcs
25	Zirconia Detector	ZR22G-200-S-C-E-T-T-E-A/C	Part No: ZR22G-200-S-C-E-T-T-E-A/C - Length: 2.0 m - Wetted material: Stainless steel - Flange: ANSI Class 150 4 RF - Reference gas: External connection (Instrument air) - Gas Thread: 1/4NPT(Female) - Connection box thread: 1/2 NPT - Options: Inconel bolt	YOKOGAWA	OECD	2	set
26	Pressure transmitter	3051CD2A02A1AM5BCH2L4T1Q4S6	Part No: 3051CD2A02A1AM5BCH2L4T1Q4S6 - Coplanar pressure transmitter - Measurement type: Differential - Pressure range: -250 to 250 inH2O (-621.60 to 621.60 mbar) - Transmitter output: 4-20 mA with digital signal based on HART® Protocol - Materials of construction: Alternate process connection - Isolating diaphragm: 316L SST - O-ring: Glass-filled PTFE - Sensor fill fluid: Silicone - Housing material: Aluminum - Display and interface options: LCD display - Calibration certificate: Calibration certificate	Emerson	Châu Âu/OECD/ASEAN	1	pcs
27	Differential Pressure Transmitter	EJA110E-JMS5G-B1CDN/C2/HC	- Output signal: 4 to 20 mA DC with digital communication (HART 5/HART 7 protocol) - Process connections: without process connector (1/4 NPT female on the cover flanges) - Measuring span (capsule): 1 to 100 kPa (4 to 400 inH2O) - Bolts and nuts material: 316L SST - Installation: Bottom Process Connection, left side high pressure - Amplifier housing: Cast aluminum alloy - Electrical connection: 1/2 NPT female, two electrical connections and a SUS316 blind plug - Integral indicator: Digital indicator	YOKOGAWA	OECD	1	set
28	Flame Scanner	D-LX-201 IG-10/P2/0000/PCG	Device variant: For direct optical access with a lens Spectral sensitivity range in nm: 780 – 1800 Regional code: certifications necessary for the region have been obtained: USA Housing characteristics: Plastic housing with plug-in cover, no explosion protection Suitability for specific ambient conditions: No explosion protection Signal and supply connection: Plastic cable gland	DURAG	Châu Âu	1	pcs



STT	Tên vật tư/mô tả	Ordering information (Part N0)	Thông số kỹ thuật	Nhà Sản xuất	Xuất xứ	Số lượng	Đơn vị
29	Flame Scanner	D-LX-721 UA-10/P2/0000/PCG	Device variant: For optical access via a fibre-optic-cable system Spectral sensitivity range in nm: 190 - 520 Regional code: certifications necessary for the region have been obtained: USA Housing characteristics: Plastic housing with plug-in cover, no explosion protection Suitability for specific ambient conditions: No explosion protection Signal and supply connection: Plastic cable gland	DURAG	Châu Âu	1	pcs
30	Pressure Switch	H122-361/M202/M446/M446/M914/QC1	- Type: Two SPDT; epoxy coated enclosure; external adjustment with reference dial, single conduit - Adjustable set point: 0 to 300 psi - Deadband: 2 to 9 psi - Over range: 200 psi - Proof: 350 psi - Wetted material: 316LSS - Option: + Factory set two switches + Stainless Steel Tag + Pressure Connection Materials: 1/2" NPT(F) stainless steel	UE	Châu Âu/OECD	1	pcs
31	Pressure Switch	H402-361 Option: M202/M446/M900/M914/QC1	- Type: dual switch output with internal adjustment via reference dial - Adjustable set point range: 0 to 300 psi - Deadband: 2 to 9 psi - Proof Pressure: 350 psi - Other options : + Factory set two switches; specify set points on increasing or decreasing pressure, differential pressure or temperature. + Stainless steel ID tag & wire attachment - Limited to 2 lines of 25 characters each max + Watertight conduit fitting; converts 7/8" hole to 1/2" NPT fitting. + 1/2" NPT (female) stainless steel pressure connection.	UE	Châu Âu/OECD	1	pcs
32	Solenoid valve	P4WE 06 E04 D01-24PG/V	- Type: Proportional directional valve with 4 main ports, direct-acting - Nominal size: 6 - Symbol; E - Nominal flow: 4 l/min - Rated voltage of the solenoid coil: 24 - Coil type: device connector to DIN EN175301-803 - Sealing material: FKM (standard)	HYDAC	Châu Âu	1	pcs
33	Solenoid valve	P4WE 06 E08 D01-24PG/V	- Type: Proportional directional valve with 4 main ports, direct-acting - Nominal size: 6 - Symbol; E - Nominal flow: 8 l/min - Rated voltage of the solenoid coil: 24 - Coil type: device connector to DIN EN175301-803 - Sealing material: FKM (standard)	HYDAC	Châu Âu	1	pcs
34	Limit Switch	LSQ051	Limit Switch LSQ051	Honeywell		1	pcs
35	Rugged Media Converter	6GK6083-8AC13-0BC1-Z A00	The RUGGEDCOM RMC8388NC is a time converter that can convert time signals between PTP (IEEE 1588) and IRIG-B. Supports RJ45 and LC for Ethernet and BNC for IRIG-B/PPS Power Supply : 100-300 VDC or 85- 264 VAC Mounting Option: Din Rail Mounting Conversion Variant: IRIG-B AM in, IEEE 1588 out Manufacturing Modification: Conformal Coating Ethernet Port Option: 100TX, RJ45	Siemens	Châu Âu/OECD	1	pcs



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36	Pressure Transmitter	2051TG5A2B21AS5B4M5T1Q4	<ul style="list-style-type: none"> <li>- In-Line Pressure Transmitter</li> <li>- Pressure type: Gage</li> <li>- Pressure range: -14.7 to 10000 psi (-1.0 to 689 bar)</li> <li>- Transmitter output: 4-20 mA with digital signal based on HART® Protocol.</li> <li>- Process connection style: ½-14 NPT female</li> <li>- Isolating diaphragm: 316L SST</li> <li>- Sensor fill fluid: Silicone</li> <li>- Housing material: Aluminum</li> <li>- Manifold assemblies: Assemble to Rosemount 306 Integral Manifold</li> <li>- Mounting bracket: Bracket for 2-in. pipe or panel mounting, all SST.</li> <li>- Display and interface options: LCD display.</li> <li>- Terminal blocks: Transient protection terminal block</li> <li>- Calibration certification: Calibration certificate.</li> </ul>	EMERSON	Châu Âu/OECD/ASEAN	1	pcs
37	Temperature Transmitter	644SANAM5C1Q4	<ul style="list-style-type: none"> <li>- Temperature transmitter</li> <li>- DIN A head mount - dual sensor input (HART only)</li> <li>- Output: 4-20 mA with digital signal based on HART protocol</li> <li>- Product certifications: No approval</li> <li>- Display and interface options: LCD display</li> <li>- Calibration certificate: Calibration certificate (3-point calibration with certificate)</li> </ul>	EMERSON	Châu Âu/OECD/ASEAN	1	pcs
38	Digital Valve Controller	DVC6200HW2	<ul style="list-style-type: none"> <li>- Input Signal:</li> <li>1) Point to point: <ul style="list-style-type: none"> <li>+ Analog Input Signal: 4-20 mA DC, nominal; split ranging available</li> <li>+ Minimum Voltage Available at Instrument Terminals must be 9.5 VDC for analog control, 10 VDC for HART communication</li> <li>+ Minimum Control Current: 4.0 mA</li> <li>+ Minimum Current w/o Microprocessor Restart: 3.5 mA</li> <li>+ Maximum Voltage: 30 VDC</li> </ul> </li> <li>2) Multi-drop <ul style="list-style-type: none"> <li>+ Instrument Power: 11 to 30 VDC at 10 mA</li> <li>+ Reverse Polarity protected</li> </ul> </li> <li>- Supply Pressure: Maximum: 10.0 bar (145 psig) or maximum pressure rating of the actuator, whichever is lower</li> <li>- Output Signal: Maximum Span: 9.5 bar (140 psig)</li> <li>- Action: Single Direct</li> <li>- Maximum Output Capacity: At 5.5 bar (80 psig) supply pressure: 29.5 normal m3/hr (1100 scfh)</li> <li>- Independent Linearity: Typical Value: ±0.50% of output span</li> <li>- Connections: <ul style="list-style-type: none"> <li>+ Supply Pressure: 1/4 NPT internal and integral pad for mounting 67CFR regulator</li> <li>+ Output Pressure: 1/4 NPT internal</li> <li>+ Tubing: 3/8-inch recommended</li> <li>+ Vent: 3/8 NPT internal</li> <li>+ Electrical: 1/2 NPT internal</li> </ul> </li> <li>- Actuator Compatibility: <ul style="list-style-type: none"> <li>+ Sliding-Stem Linear Linear actuators with rated travel between 6.35 mm (0.25 inch) and 606 mm (23.375 inches)</li> </ul> </li> </ul>	EMERSON		2	pcs
39	Solenoid Valve	WSNF8327B002	<ul style="list-style-type: none"> <li>- Connection: 1/4 NPT</li> <li>- Body: Brass or stainless steel AISI 316L</li> <li>- Stem, core tube: Stainless steel</li> <li>- Core and plugnut: Stainless steel</li> <li>- Springs: Stainless steel</li> <li>- Differential pressure: 0 - 10 Bar</li> <li>- Standard voltages: 24Vdc</li> <li>- Power coil: 11.2 W</li> <li>- Protection class : IP67</li> </ul>	ASCO	Châu Âu/OECD	1	pcs





STT	Tên vật tư/mô tả	Ordering information (Part N0)	Thông số kỹ thuật	Nhà Sản xuất	Xuất xứ	Số lượng	Đơn vị
40	Limit Switch	3SE5162-0CD02	Mechanical position switches Minimum actuating force in directions of actuation: 30 N Length of the sensor: 138.3 mm Width of the sensor: 56 mm Material of the enclosure: metal Design of the actuating element: Roller plunger, high-grade steel roller Circuit principle: snap-action contacts Fastening method: screw fixing	SIEMENS	Châu Âu	1	pcs
41	Pressure Switch	J402-358	*- Type J402, dual switch output with internal hex screw adjustment - Proof Pressure: 17.2 bar - Adjustable setpoint range: 0-13,8 mbar - Over-range pressure: 13,8bar - Deadband: 0,1 to 0,6 mbar	UNITED ELECTRIC CONTROLS	OECD	3	pcs
42	Pressure transmitter	2051TG2A2B21AB4M5D4T1Q4	- In-Line Pressure Transmitter - Pressure type: Gage - Pressure range: -14.7 to 150 psi (-1.0 to 10.3 bar) - Transmitter output: 4-20 mA with digital signal based on HART® Protocol - Process connection style: ½-14 NPT female - Isolating diaphragm: 316L SST - Sensor fill fluid: Silicone - Housing material: Aluminum - Conduit entry size: ½-14 NPT - Mounting bracket: Bracket for 2-in. pipe or panel mounting, all SST - Display and interface options: LCD display - Hardware adjustments: Zero and span configuration buttons - Terminal blocks: Transient protection terminal block - Calibration certification: Calibration certificate	EMERSON	Châu Âu/OECD/ASEAN	1	pcs
43	Pressure transmitter	2051TG4A2B21AB4M5T1D4Q4	- In-Line Pressure Transmitter - Pressure type: Gage - Pressure range: -14.7 to 4000 psi (-1,0 to 276 bar) - Transmitter output: 4-20 mA with digital signal based on HART® Protocol - Process connection style: ½-14 NPT female - Isolating diaphragm: 316L SST - Sensor fill fluid: Silicone - Housing material: Aluminum - Conduit entry size: ½-14 NPT - Mounting bracket: Bracket for 2-in. pipe or panel mounting, all SST - Display and interface options: LCD display - Hardware adjustment : Zero and span configuration buttons. - Terminal blocks: Transient protection terminal block - Calibration certification: Calibration certificate	EMERSON	Châu Âu/OECD/ASEAN	1	pcs
44	Temperature Transmitter	TTH300.Y0.H.BS	*- TTH300 Head Mounted Temperature Transmitter, Pt100 (RTD), thermocouples, electrical isolation. - Material + Housing: Polycarbonate + Casting compound: Polyurethane (PUR) - Output signal: Configurable 4 to 20 mA (standard) - Supply voltage: US = 11 to 42 V DC - Communication Protocol: HART - Configuration: Standard configuration	ABB	Châu Âu	4	pcs

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45	switch	6GK5308-2QG00-2AA2	SCALANCE X308-2M PoE; managed IE switch, compact; 4x 10/100/1000 Mbit/s for RJ45 ports electrical with PoE; 2x 100/1000 Mbit/s for 2-port media modules, electrical or optical; LED diagnostics, error signaling Contact with select/set pushbutton, PROFINET IO device, network management, Integrated redundancy manager, office features (RSTP, VLAN, IGMP,...) C-plug in scope of supply	Siemens	Châu Âu	1	PCS
46	Fiber Optic Transmission	IRGR-1501-7	Fiber Optic Receiver Wavelength: 1310nm Fiber: Single mode FC Signal Bandwidth: 100Hz - 500KHz (+0,-3dB) Input / Output Impedance: 50 ohms Input / Output Level: 3 volts pp maximum Output Drive Current: 60 mA maximum Protocols: IRIG-A,B,D,E,G,H; NASA36 Linearity: 2% typical MTBF (MIL-HDBK-217) >100,000 Hours Power Requirements 11-24 VAC/DC @150 mA	LuxLink		1	PCS
47	Splitter	TIM018-Mk2-DC	Input resistance: 50 Ohms Input range: 4-20mA, 0-10mA Excitation voltage: 20VDC nom. 28mA max Output range: 4-20mA, 0-10mA Span adjustment: +/-9mA Zero adjustment: +/-1mA Response speed: 200 mSeconds Isolation: 380V to earth and power Drive capacity: 600 Ohms per loop Accuracy: +/-0.1% span Supply voltage: 11-30 VDC Connections: Screw terminals - plug-in Mounting DIN Rail EN50 022	London Electronics Ltd		1	PCS
48	COUPLING RELAYS	PSR-PS20-1NO-1NC-24DC-SC-2700356	Coupling relay for SIL 3 high and low-demand applications, couples digital output signals to the I/O, 1 enabling current path, 1 confirmation current path, 1 digital signal output, safe state off applications, test pulse filter, fixed screw terminal block	Phoenix Contact		3	PCS
49	Transformer Isolated Barriers	KFD2-SR2-Ex1W	- Power supply: + Rated operational voltage 20 ... 30 V DC + Rated operational current 20 ... 23 mA + Safety maximum voltage U <sub>m</sub> 40 V DC  - Input (intrinsically safe): + Nominal data in accordance with IEC 60947-5-6 (NAMUR, DIN 19234); + Quiescent voltage/Short-circuit current approx. 8 V DC / approx. 8 mA + Switching point/Switching hysteresis 1.2 ... 2.1 mA / approx. 0.2 mA  - Output (not intrinsically safe): + Output: signal ; relay + Mechanical life: 10 <sup>7</sup> switchings + Energized/De-energized delay approx. 20 ms / approx. 20 ms  - Safety parameter + UL control drawing: E 106378 + CSA control drawing: LR 36087-13	Pepperl+Fuchs		2	PCS



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50	Belt Misalignment Switch	389383003 Type: CL03	<ul style="list-style-type: none"> <li>- Dimension: 195Lx100Wx123H (mm)</li> <li>- Enclosure: Aluminum</li> <li>- Mounting: 2 slotted holes for M6 screws</li> <li>- Switching points: adjustable between 5° ... 15° or 15° ... 35°</li> <li>- Displacement of actuator: max. 75°</li> <li>- Actuation force: 30N ±10N</li> <li>- Permissible ambient temperature: -40 °C ... +70 °C</li> <li>- Protection rating: IP 65 TCVN 4255:2008</li> <li>- Utilization category: 15A/250VAC 0,6A/125VDC 0,3A/250 VDC</li> <li>- Connection cross section: 1 - 2,5 mm<sup>2</sup></li> <li>- Switching system: Up to 3 NC and NO contacts</li> </ul>	NARIME		3	pcs
51	Emergency Pull Cord Switch	GD-04 Order number: 389.382.004	<ul style="list-style-type: none"> <li>- Dimension: 195Lx100Wx123H (mm)</li> <li>- Enclosure: Aluminum</li> <li>- Mounting: 2 slotted holes for M6 screws</li> <li>- Installation position: Horizontal</li> <li>- Type of actuation: Bidirectional; spring-loaded</li> <li>- Pull-rope length: Up to approx. 100 m</li> <li>- Actuation force: 30N ±10N</li> <li>- Utilization category: 15A/250VAC; 0,6A/125VDC; 0,3A/250 VDC</li> <li>- Switching system: Up to 4 SPDT contacts</li> </ul>	NARIME		3	pcs
52	CPU	6ES7516-3AN01-0AB0	<p>SIMATIC S7-1500, CPU 1516-3 PN/DP</p> <ul style="list-style-type: none"> <li>- central processing unit with work memory 1 MB for program and 5 MB for data</li> <li>- 1st interface: PROFINET IRT with 2-port switch, 2nd interface: PROFINET RT, 3rd interface: PROFIBUS</li> <li>- 10 ns bit performance</li> <li>- SIMATIC Memory Card required</li> <li>- Engineering with STEP 7 TIA Portal configurable/integrated from version V17 (FW V2.9) / V13 SP1 Update 4 (FW V1.8) or higher</li> </ul>	Siemens	Châu Âu	1	PCS
53	Digital Input module	6ES7521-1BH00-0AB0	<p>SIMATIC S7-1500, digital input module DI 16x24 V DC HF</p> <ul style="list-style-type: none"> <li>- 16 channels in groups of 16; of which 2 inputs as counters can be used;</li> <li>- input delay 0.05...20 ms;</li> <li>- input type 3 (IEC 61131);</li> <li>- Supply voltage: Rated value (DC) 24 V</li> <li>- Reverse polarity protection: Yes</li> <li>- Digital inputs: <ul style="list-style-type: none"> <li>+ Number of digital inputs: 16</li> <li>+ Digital inputs, parameterizable: Yes</li> <li>+ Source/sink input: P-reading</li> </ul> </li> </ul>	Siemens	Châu Âu	1	PCS



STT	Tên vật tư/mô tả	Ordering information (Part No)	Thông số kỹ thuật	Nhà Sản xuất	Xuất xứ	Số lượng	Đơn vị
54	Digital output module	6ES7522-1BH01-0AB0	SIMATIC S7-1500, digital output module DQ16x24 V DC/0.5A HF; 16 channels in groups of 8; 4 A per group; single-channel diagnostics; substitute value: switching cycle counter for connected actuators. the module supports the safety-oriented shutdown of load groups up to SIL2 according to EN IEC 62061:2021 and Category 3 / PL d according to EN ISO 13849-1:2015. - Supply voltage: Rated value (DC) 24 V - Reverse polarity protection: Yes; through internal protection with 7 A per group - Digital outputs: + Type of digital output: Transistor + Number of digital outputs: 16 + Current-sourcing: Yes + Digital outputs, parameterizable: Yes + output type acc. to IEC 61131, type 0.5: Yes + Limitation of inductive shutdown voltage to: L+ (-53 V) + Controlling a digital input: Yes	Siemens	Châu Âu	1	PCS
55	Fan and filter	2012.009/2012.040	FK6622.230 Standard fan: F2E-120S-230 Rated voltage (V / Hz): 230/50/60 Axial Fan: Automatically shield pole motor Rated current (A): 0.12/0.10 Power (W): 19/14 Noise level (dB): 50/52 Operating temperature range: -10C to +55C	LEIPOLE		3	PCS
56	DIGITAL OUTPUT MODULE	6ES7132-6BF00-0BA0	SIMATIC ET 200SP, DIGITAL OUTPUT MODULE, DQ 8X24VDC/0,5A STANDARD, FITS TO BU-TYPE A0, COLOR CODE CC02, MODULE DIAGNOSIS - Digital outputs: + Number of digital outputs: 8 + Current-sinking: No + Current-sourcing: Yes + Short-circuit protection: Yes + Limitation of inductive shutdown voltage to: Typ. L+ (-50 V) + Controlling a digital input: Yes	Siemens	Châu Âu	4	PCS
57	PROFIBUS Module	6ES7155-6BA00-0CN0	200SP, PROFIBUS IM bundle, IM 155-6DP HF, max. 32 I/O modules and 16 ET 200AL modules, multi hot swap, bundle consists of: Interface module (6ES7155-6BU00-0CN0), server module (6ES7193-6PA00-0AA0), PROFIBUS connector (6ES7972-0BB70-0XA0)	Siemens	Châu Âu	1	PCS
58	Relay module	8237710000	Certificate No. (cURus) E141197 - Control side: + Rated control voltage 230 V AC $\pm 10\%$ , Rated current AC 9.5 mA + Power rating: 2.1 VA + Protective circuit: Rectifier -Load side: + Rated switching voltage: 250 V AC + Continuous current: 6 A + Max. switching frequency at rated load 0.1 Hz + Max. switching voltage, AC: 250 V + Max. switching voltage, DC: 250 V + Inrush current 6 A + Switch-on delay < 11 ms + Switch-off delay < 35 ms	Weidmüller		4	PCS



STT	Tên vật tư/mô tả	Ordering information (Part N0)	Thông số kỹ thuật	Nhà Sản xuất	Xuất xứ	Số lượng	Đơn vị
59	FAN	K2E200-AH20-05	<p>Motor M2E068-CF Phase 1~ Nominal voltage / VAC 230 Frequency / Hz: 50 Valid for approval/standard: CE Speed (rpm) / min-1: 2700 Power consumption / W: 70 Current draw / A: 0.37 Capacitor / <math>\mu</math>F: 1.5 Capacitor voltage / VDB: 400 Capacitor standard S0 (CE) Min. back pressure / Pa.; 0 Max. back pressure / Pa: 115 Min. ambient temperature / °C: -30 Max. ambient temperature / °C: 55 Starting current / A: 0.87</p>	EBMPapst		3	PCS
60	Proximity Sensor	NBN40-U1-A2-M	<p>- Switching function: complementary - Output type: PNP - Rated operating distance: 40 mm - Installation: non-flush - Output polarity: DC - Assured operating distance: 0 ... 32.4 mm - Actual operating distance: 36 ... 44 mm - Output type: 4-wire - Operating voltage UB: 10 ... 60 V DC - Switching frequency f: 0 ... 150 Hz - Hysteresis H typ: 5 % - Reverse polarity protection: reverse polarity protected - Short-circuit protection: pulsing - Voltage drop Ud: <math>\leq</math> 2 V - Degree of protection: IP68</p>	PEPPERL + FUCHS	Châu ÂU/OECD/ASEAN	16	pcs
61	Limit Switch	83733310	<p>- Max. operating force (N) : 6 - Max. total travel force (N): 25 - Max. Allowable overtravel force (N): 30 - Max. Pretravel (mm): 1.5 - Max. Differential travel (mm): 0.2 - Ambient operating temperature (°C): -5 → +70 - Mechanical life (operations): 106</p>	CROUZET		2	pcs
62	Power supply	MDR-20-24	<p>- OUTPUT + DC VOLTAGE: 24V + RATED CURRENT: 1A + CURRENT RANGE: 0 ~ 1A + RATED POWER: 24W + RIPPLE &amp; NOISE (max.) 2: 150mVp-p + VOLTAGE ADJ. RANGE: 21.6 ~ 26.4V - INPUT + VOLTAGE RANGE: 85 ~ 264VAC + FREQUENCY RANGE: 47 ~ 63Hz + EFFICIENCY (Typ): 84% + AC CURRENT (Typ): 0.35A/230VAC + LEAKAGE CURRENT: &lt;1mA / 240VAC</p>	MEAN WELL		1	pcs



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63	Card Digital Control	VT-VPCD-1-12/V1/0 (R901026243)	<ul style="list-style-type: none"> <li>- Digital control electronics for controlling axial piston variable displacement pumps</li> <li>- With display</li> <li>- Operating voltage: 24V</li> <li>- Current consumption: 3.5 A</li> <li>- Range: 4 to 20 mA</li> <li>- Input resistance: 100 Ω</li> <li>- Leakage current: 0.15 %</li> <li>- Resolution: 5 μA [12 bit]</li> </ul>	Bosch Rexroth	Châu Âu	1	pcs
64	Solenoid valve	4WE 6 J S01 24DG/V	<ul style="list-style-type: none"> <li>- 4/3 directional spool valve solenoid-operated, direct-acting</li> <li>- Solenoid-operated directional valve with 4 main ports, direct-acting</li> <li>- Nominal size: 6</li> <li>- Spool symbol: J</li> <li>- Rated voltage of the solenoid coil: 24 VDC</li> <li>- Electrical connection: device plug, DIN EN 175301-803 A</li> </ul>	HYDAC	Châu Âu	1	set
65	Alarm Horn & Strobe Lamp	22510703	<ul style="list-style-type: none"> <li>- Power supply: 230 Vac</li> <li>- Housing: ABS</li> <li>- Sound level: approx. 112 dB(A)</li> <li>- Flash energy: 2.5 Joule</li> <li>- Signals: 32</li> <li>- Ingress protection: IP 66</li> <li>- Operating conditions: Indoors and outdoors</li> </ul>	EATON		1	pcs
66	Limit Switch	XCRF171	<ul style="list-style-type: none"> <li>* - Main</li> <li>+ Movement of operating head: Rotary</li> <li>+ Number of poles: 4</li> <li>+ Contacts type and composition: 2 x (1 NC + 1 NO)</li> <li>+ Switch actuation By any moving part</li> <li>+ Contact operation Snap action</li> <li>- Complementary</li> <li>+ Body material: Zinc alloy</li> <li>+ Switch actuation: By any moving part</li> <li>+ Minimum actuation speed: 0.01 m/min</li> <li>+ Maximum actuation speed: 1.5 m/s</li> <li>+ Short-circuit protection: 10 A cartridge fuse, type gG</li> <li>+ Mechanical durability: 10000000 cycles</li> <li>- IP degree of protection IP65</li> </ul>	Telemecanique	Châu Âu/OECD/ASEAN	1	pcs
67	Solenoid valve	8296600.8171	<ul style="list-style-type: none"> <li>- Port size: G 1 1/2</li> <li>- Nominal Diameter (mm): 50</li> <li>- Valve length (mm): 135</li> <li>- Operating pressure (bar): 0,4...8</li> <li>- kV-value (Base m3/h): 59</li> <li>- Power supply: 24V</li> <li>- Body: Aluminium</li> </ul>	IMI BUSCHJOST	Châu Âu	2	pcs
68	Proportional directional valves	4WRAP6W7-04-30=G24K4/V=00 MNR : R900972655	4WRAP6W7-04-30=G24K4/V=00 MNR : R900972655	Bosch Rexroth	Châu Âu	1	set



STT	Tên vật tư/mô tả	Ordering information (Part N0)	Thông số kỹ thuật	Nhà Sản xuất	Xuất xứ	Số lượng	Đơn vị
69	Transmitter Power Supply	S1SD-1AI-1U	<ul style="list-style-type: none"> <li>- The device supplies 2-wire and 3-wire transmitters, and can also be used with current sources.</li> <li>- The device provides the following standard signals at the output:</li> <li>+ 0/4 mA ... 20 mA signal</li> <li>+ 0/2 V ... 10 V signal</li> <li>- The device is easily configured by the use of DIP switches.</li> <li>- Rated voltage: 16.8 ... 31.2 V DC</li> <li>- Input</li> <li>+ Input signal: 0/4 ... 20 mA</li> <li>+ Open circuit voltage/short-circuit current: <math>\leq 22 \text{ V} / 30 \text{ mA}</math></li> <li>+ Input resistance: 25 <math>\Omega</math></li> <li>+ Transmission range: linearity range: -1 ... 110 %</li> <li>- Output</li> <li>+ Analog voltage output: 0/2 ... 10 V , load <math>\geq 2 \text{ k}\Omega</math></li> <li>+ Analog current output: 0/4 ... 20 mA, load <math>\leq 600 \Omega</math></li> </ul>	Pepperl+Fuchs		5	pcs
70	Power Supply	6EP1333-1LD00	<ul style="list-style-type: none"> <li>PSU100D 24 V/6,2 A</li> <li>- supply voltage at AC:</li> <li>+ minimum rated value 100 V</li> <li>+ maximum rated value 240 V</li> <li>+ initial value 85 V</li> <li>+ full-scale value 264 V</li> <li>- line frequency 47 ... 63 Hz</li> <li>- voltage curve at output: Controlled, isolated DC voltage</li> <li>- output voltage at DC rated value: 24 V</li> <li>- output current: rated value 6.2 A</li> <li>- efficiency in percent: 86 %</li> </ul>	Siemens	Châu Âu/OECD/ASEAN	2	pcs
71	Lubricators	L74C-4GP-QPN	<ul style="list-style-type: none"> <li>- Oil fog lubricator</li> <li>- Port size: 1/2"</li> <li>- Thread form: ISO G parallel (standard)</li> <li>- Drain: Manual (standard)</li> <li>- Bowl: Transparent with guard (standard)</li> <li>- Option: None (standard)</li> </ul>	IMI NORGREN	Châu Âu/OECD/ASEAN	9	pcs
72	Filter	F74G-4GN-QP1	<ul style="list-style-type: none"> <li>- Port size: 1/2"</li> <li>- Thread form: Iso G parallel (standard)</li> <li>- Service life indicator: Without (standard)</li> <li>- Drain: Manual</li> <li>- Bowl: Transparent with guard (standard)</li> <li>- Filter element: 5 <math>\mu\text{m}</math> (standard)</li> </ul>	IMI NORGREN	Châu Âu/OECD/ASEAN	9	pcs
73	Isolator Module	S1SL-2AI-2C	<ul style="list-style-type: none"> <li>- 2-channel signal conditioner</li> <li>- Field side loop powered</li> <li>- Current input/output 0/4 mA ... 20 mA</li> <li>- Accuracy 0.1 %</li> <li>- Reverse polarity protection</li> <li>- Connection via screw terminals</li> <li>- Rated voltage: 2.2 ... 30 V DC , loop powered</li> <li>- Input:</li> <li>+ Input signal: 0/4 ... 20 mA , max. 50 mA</li> <li>+ Input voltage: <math>\geq 2.3 \text{ V} + I \times \text{load}</math> , max. 30 V</li> <li>+ Voltage drop: <math>\leq 2.3 \text{ V}</math></li> <li>- Output:</li> <li>+ Connection terminals 1-, 2+, 3-, 4+</li> <li>+ Analog current output 0/4 ... 20 mA, load <math>\leq 600 \Omega</math></li> <li>+ Ripple <math>\leq 10 \text{ mV eff}</math></li> <li>- Transfer characteristics</li> <li>+ Deviation: <math>\leq 0.1 \%</math> of full-scale value</li> <li>+ Influence of load: 0.05 % of the measured value per 100 <math>\Omega</math></li> <li>+ Influence of ambient temperature: <math>&lt; 100 \text{ ppm/K}</math> of full-scale value</li> <li>+ Frequency range: 0 ... 100 Hz</li> </ul>	Pepperl+Fuchs		5	pcs



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74	Power Feed Module	S1SD-2PF	<ul style="list-style-type: none"> <li>- Interface for Power Bus</li> <li>- Supply current 3 A</li> <li>- LED status indication</li> <li>- Connection via screw terminals</li> <li>- Supply:</li> <li>+ Connection Power Bus or terminals 1-, 2+; 7+, 8-</li> <li>+ Rated voltage: 16.8 ... 31.2 V DC</li> <li>+ Fusing: 4 AT with back-up fuse</li> <li>+ Power dissipation: 0.8 W</li> <li>- Output:</li> <li>+ Supply Output current: ≤ 3 A, via Power Bus</li> <li>+ Dimensions: 6.2 x 97 x 107 mm (0.24 x 3.82 x 4.21 inch), housing type S1</li> <li>+ Mounting: on 35 mm DIN mounting rail acc. to EN 60715:2001</li> </ul>	Pepperl+Fuchs		2	pcs
75	Pressure Transmitter	P320 7MF0300-1FE11-5AF2-Z A00+C11+C12+C14+E00+H02+T03+Y01+Y21+Y15	<ul style="list-style-type: none"> <li>- Communication; HART, 4...20 mA</li> <li>- Measuring cell filling: Silicone oil</li> <li>- Maximum measuring span: 250 mbar (3.6 psi)</li> <li>- Process connection: Female thread 1/2-14 NPT</li> <li>- Wetted parts materials: process connection, seal diaphragm: Stainless steel 316L/1.4404, alloy C276/2.4819</li> <li>- Non-wetted parts materials: Die-cast aluminum</li> <li>- Electrical connections/cable entries: 2 x M20 x 1.5</li> <li>- Cable glands included: Plastic</li> <li>- Certificates:</li> <li>+ Quality inspection certificate, 5-point factory calibration (IEC 62828-2)</li> <li>+ Inspection certificate (EN 10204-3.1) - Material of pressurized and wetted parts</li> <li>+ Factory certificate (EN 10204-2.2) - Wetted parts</li> <li>- Mounting bracket: Stainless steel 1.4301/304</li> </ul>	SIEMENS	Châu Âu	2	pcs
76	Magnetically operated switch, Reed contact	QM/32/2	<ul style="list-style-type: none"> <li>- Supply: 10 ... 240 Vac/dc</li> <li>- Protection: IP66</li> <li>- Materials: Plastic</li> <li>- Type: Reed with LED</li> <li>- With plug: M12 x 1</li> <li>- Cable length/plug: 2m</li> </ul>	IMI NORGREN		3	pcs
77	PH Sensor	CPS41E-AA7BSC2	<p>pH Sensor</p> <p>[AA]Approval: Non-hazardous area</p> <p>[7]Electrode Type: Basic version, zero point pH 7,0; temperature sensor NTC 30k</p> <p>[B]Application Range: 0-14 pH, 0...135oC, 0,8...11 bar (abs)</p> <p>[SC]Reference System: 3 ceramic junctions, 3 M KCl, Ag/AgCl, hose tap</p> <p>[2]Shaft Length: 120mm</p>	ENDRESS + HAUSER	Châu Âu	2	pcs
78	Proximity Switch	NJ2-V3-N	<ul style="list-style-type: none"> <li>- Switching function: Normally closed (NC)</li> <li>- Output type: NAMUR</li> <li>- Rated operating distance: 2 mm</li> <li>- Installation: flush</li> <li>- Assured operating distance: 0 ... 1.62 mm</li> <li>- Output type: 2-wire</li> <li>- Nominal voltage: 8.2V</li> <li>- Switching frequency: 0 ... 1000 Hz</li> <li>- Current consumption</li> <li>+Measuring plate not detected: ≥ 3 mA</li> <li>+Measuring plate detected: ≤ 1 mA</li> <li>- Connection type: cable</li> <li>- Housing material: PBT</li> <li>- Sensing face: PBT</li> <li>- Degree of protection: IP67</li> </ul>	PEPPERL+FUCHS	Châu Âu/OECD/ASEAN	2	pcs





STT	Tên vật tư/mô tả	Ordering information (Part N0)	Thông số kỹ thuật	Nhà Sản xuất	Xuất xứ	Số lượng	Đơn vị
79	Limit Switch	XCKJ10541H29	<p>Main:</p> <ul style="list-style-type: none"> <li>+ Body type: Fixed</li> <li>+ Head type: Rotary head</li> <li>+ Material: Metal</li> <li>- Body material: Zamak</li> <li>- Head material: Zamak</li> <li>- Type of operator: Spring return roller lever thermoplastic (variable length)</li> <li>- Contacts type and composition: 1 NO + 1 NC</li> <li>- Contacts operation: Snap action</li> </ul> <p>Complementary</p> <ul style="list-style-type: none"> <li>- Switch actuation: By 30° cam</li> <li>- rated insulation voltage: 300 V conforming to CSA C22-2 No 14</li> <li>- rated impulse withstand voltage: 6 kV conforming to IEC 60664; 6 kV conforming to IEC 60947-1</li> <li>- IP66</li> </ul>	TELEMECANIQUE	Châu Âu/OECD/ASEAN	4	pcs
80	Limit Switch	XCRT115	<p>Main:</p> <ul style="list-style-type: none"> <li>- Body type: Fixed</li> <li>- Head type: Rotary head</li> <li>- Material: Metal</li> <li>- Movement of operating head: Rotary</li> <li>- Type of operator: Zinc plated steel spring return roller (with lever)</li> <li>- Type of approach: 2 directions lateral approach</li> <li>- Number of poles: 2</li> <li>- Contacts type and com-position: 2 C/O</li> <li>- Contacts operation: Snap action</li> </ul> <p>Complementary:</p> <ul style="list-style-type: none"> <li>- Body material: Zinc alloy</li> <li>- Switch actuation: By conveyor belt</li> <li>- Contacts insulation form: Za</li> <li>- Number of steps: 2</li> <li>- Minimum torque for tripping: 1 N.m</li> <li>- Minimum actuation speed: 0.01 m/min</li> <li>- Tripping angle: <ul style="list-style-type: none"> <li>+ 18 ° for stopping of the conveyor belt</li> <li>+ 10 ° for fault signalling</li> </ul> </li> <li>- Mechanical durability: 300000 cycles</li> </ul>	TELEMECANIQUE	Châu Âu/OECD/ASEAN	2	pcs
81	Limit Switch (Belt misalignment)	60-30G	Limit Switch (Belt misalignment) 60-30G	THERMO FISHER		5	pcs
82	Encoder	AM58S13/4096PB-10	<ul style="list-style-type: none"> <li>- Electrical Specification</li> <li>+ Resolution: 8192 cpr x 4096 turns</li> <li>+ Accuracy: ±0.04°</li> <li>+ Counting Frequency: 100 kHz max</li> <li>+ Interface: Profibus-DP V0, Class 2 (RS485)</li> <li>- Materials</li> <li>+ Flange: anticorodal UNI EN AW-6082</li> <li>+ Housing: anticorodal UNI EN AW-6082</li> <li>+ Bearings: ABEC 5</li> <li>+ Shaft: stainless steel, non magnetic, UNI EN 4305</li> <li>- Mechanical Specification</li> <li>+ Shaft Diameter: 10mm</li> <li>+ Shaft Loading: 40 N max</li> <li>+ Shaft Rotational Speed: 6000 rpm max</li> <li>+ Electrical Connection: PG outlet</li> <li>- Environmental Specifications</li> <li>+ Protection: IP65</li> </ul>	LIKA	Châu Âu	1	pcs
83	Pull Cord Switch	60-31G	Pull Cord Switch 60-31G	THERMO FISHER		10	pcs
84	Rotation Light	FLR-S + HT DOUBLE (90352 + 90512)	<ul style="list-style-type: none"> <li>- Mounting Base: HT DOUBLE , Part No: 90512</li> <li>- Light: FLR-S, Part No: 90352</li> <li>- 120/240V AC</li> </ul>	SIRENA		5	pcs

STT	Tên vật tư/mô tả	Ordering information (Part N0)	Thông số kỹ thuật	Nhà Sản xuất	Xuất xứ	Số lượng	Đơn vị
85	Limit Switch	ZCKJ1H29+ZCKE05+ZCKY43	<ul style="list-style-type: none"> <li>- Limit Switch Body: ZCKJ1H29</li> <li>+ Body material: Metal</li> <li>+ Cable entry: 1 entry tapped for M20 x 1.5 cable gland</li> <li>+ Number of poles: 2</li> <li>+ Contacts type and composition: 1 NC + 1 NO</li> <li>+ Contact operation: Snap action</li> <li>- Limit Switch Head: ZCK05</li> <li>+ Switch actuation: From left and/or right CW and/or CCW</li> <li>+ Positive opening: With</li> <li>+ Head material: Metal</li> <li>- Limit Switch Lever: ZCKY43</li> <li>+ Switch actuation By 30° cam</li> <li>+ Positive opening Without</li> </ul>	TELEMECANIQUE		2	pcs
86	Air Filter Regulator	8651APBL2Q101HN	<ul style="list-style-type: none"> <li>- Thread connection: NPTF</li> <li>- Product series: 651</li> <li>- Revision letter: A</li> <li>- Product type: Filter/Regulator - Particulate</li> <li>- Elements: 5 µm (White)</li> <li>- Bowl type: Metal bowl with sight gauge (glass)</li> <li>- Port size: 1/4</li> <li>- Gauge type: Round gauge bar/PSI</li> <li>- Options: Side Mounting Brackets</li> <li>- Pressure range: 0.5..10 bar</li> <li>- Drain type: Manual/Semi-automatic drain</li> </ul>	AVENTICS		10	set
87	Heat Resistant In-line Style Speed Controller	AS3000-N02-X221	<ul style="list-style-type: none"> <li>Fluid: Air</li> <li>Proof pressure: 1.5MPa</li> <li>Operating pressure range: 0.05 to 1.0MPa</li> <li>Ambient and fluid temperature: -5 to 150°C (No freezing)</li> <li>Number of needle rotations: 8turns</li> <li>Body size: 3/8 NPT</li> <li>Port size: 1/4 NPT</li> </ul>	SMC		10	set
88	Actuator Control Board	AM 01.1	<ul style="list-style-type: none"> <li>Control Board AM 01.1</li> <li>(phải phù hợp để thay thế/lắp đặt với thiết bị hiện hữu của Nhà máy Order no: 13448281, No 1119MA 21493, TPA: 00R1BB-101-000, MSP: 1110KC3-F18E2)</li> </ul>	Auma	Châu Âu/OECD	1	pcs
89	Solenoid valve	8551A409	<ul style="list-style-type: none"> <li>Valve:</li> <li>- Pipe size: 1/4"</li> <li>- Orifice size: 6</li> <li>- Flow coefficient Kv: 10 l/min</li> <li>Solenoid:</li> <li>- Number: 01</li> <li>- Voltages: 230V AC/50Hz</li> <li>- Power ≥ 10.1 Watt</li> </ul>	ASCO		10	set



STT	Tên vật tư/mô tả	Ordering information (Part N0)	Thông số kỹ thuật	Nhà Sản xuất	Xuất xứ	Số lượng	Đơn vị
90	Limit Switch	ZCP21 + ZCE01 + ZCY45	<ul style="list-style-type: none"> <li>Limit switch body: ZCP21</li> <li>- Body Material: Plastic</li> <li>- Number of poles: 2</li> <li>- Contacts type and composition: 1NC + 1NO</li> <li>- Contact operation: Snap action</li> <li>Limit switch head: ZCE01</li> <li>- Movement of operating head: Rotary</li> <li>- Type of operator: Without operating lever spring return metal</li> <li>- Type of approach: Lateral approach, 2 directions</li> <li>Limit switch lever: ZCY45</li> <li>- Movement of operating head: Rotary</li> <li>- Type of operator: Roller lever spring return thermoplastic</li> <li>- Tracks: No track</li> <li>- Type of approach: Lateral approach</li> </ul>	Telemecanique	Châu Âu/OECD/ASEAN	2	pcs
91	Inductive proximity sensors	XS518B1PBL2	<ul style="list-style-type: none"> <li>Inductive proximity sensors XS, inductive sensor XS5 M18, L39mm, brass, Sn5mm, 12...24 VDC, cable 2 m.</li> <li>- Sensor type: Inductive proximity sensor</li> <li>- Size: 39 mm</li> <li>- Body type: Fixed</li> <li>- Detector flush mounting acceptance: Flush mountable</li> <li>- Material: Metal</li> <li>- Type of output signal: Discrete</li> <li>- Wiring technique: 3-wire</li> <li>- [Sn] nominal sensing distance: 5 mm</li> <li>- Discrete output function: 1 NC</li> <li>- Output circuit type: DC</li> <li>- Discrete output type: PNP</li> <li>- Electrical connection Cable</li> <li>- Cable length: 2 m</li> <li>- [Us] rated supply voltage: 12...24 V DC with reverse polarity protection</li> <li>- Switching capacity in mA :&lt;= 200 mA DC with overload and short-circuit protection:</li> <li>- IP degree of protection: IP68</li> <li>- Thread type : M18 x 1</li> <li>- Operating zone: 0 ... 4 mm</li> <li>- Wire insulation material: PVC</li> </ul>	TELEMECANIQUE		1	pcs
92	Solenoid valve	WSETX8353D133.17081	<ul style="list-style-type: none"> <li>- Power Supply: 24VDC</li> <li>- Pipe: 1" NPT</li> <li>- Protection: IP67</li> <li>(Phù hợp để lắp đặt/thay thế solenoid valve Cátlogue No: WSETX8353D133.17081 Serial No.250119-086)</li> </ul>	ASCO		2	pcs
93	Differential pressure Transmitter	3051CD3A22A1AS2E7M5B4T1Q4	<ul style="list-style-type: none"> <li>- Coplanar pressure transmitter</li> <li>- Measurement type: Differential</li> <li>- Pressure range: -1000 to 1000 inH2O (-2.48 to 2.48 bar)</li> <li>- Transmitter output: 4-20 mA with digital signal based on HART® Protocol</li> <li>- Materials of construction:</li> <li>+ Transmitter flange type: Coplanar</li> <li>+ Flange material: SST</li> <li>+ Drain/vent: SST</li> <li>- Isolating diaphragm: 316L SST</li> <li>- O-ring: Glass-filled PTFE</li> <li>- Sensor fill fluid: Silicone</li> <li>- Housing material: Description Aluminum, Conduit entry size ½-14 NPT</li> <li>- Seal assemblies: Assemble to two Rosemount seals</li> <li>- Product certifications: IECEx Flameproof</li> <li>- Display and interface options: LCD display</li> <li>- Transient protection: Transient protection terminal block</li> <li>- Mounting bracket: Coplanar flange bracket, all SST, 2-in. (51 mm) pipe and panel</li> </ul>	EMERSON	Châu Âu/OECD/ASEAN	2	pcs



STT	Tên vật tư/mô tả	Ordering information (Part No)	Thông số kỹ thuật	Nhà Sản xuất	Xuất xứ	Số lượng	Đơn vị
94	Màn hình máy tính	U2424H	Kích thước màn hình: 23.8 inch Độ phân giải: FHD (1920 x 1080) Tỉ lệ: 16:9 Tấm nền màn hình: IPS Cổng kết nối: DisplayPort, HDMI	Dell		1	pcs
95	Annual Spares Kit	AW601155	Part No: AW601155	ABB	Châu Âu/OECD	3	set
96	Tubing Kit	AW601176	Part No: AW601176	ABB	Châu Âu/OECD	3	set
97	Filter Assembly	AW600049	Part No: AW600049	ABB	Châu Âu/OECD	3	set
98	Pump Motor and Coupling	AW600047	Part No: AW600047	ABB	Châu Âu/OECD	1	set
99	Calibration/clean/cuvette/ sample Select Valve Including Manifold	AW600034	Part No: AW600034	ABB	Châu Âu/OECD	1	set
100	Optical Unit (excluding secondary debubbler)	AW601110	Part No: AW601110	ABB	Châu Âu/OECD	1	set
101	Reaction Coil, Manifold & Cover	AW601181	Part No: AW601181	ABB	Châu Âu/OECD	1	set
102	Secondary Debbbler Assembly	AW601715	Part No: AW601715	ABB	Châu Âu/OECD	1	set
103	Tubing Kit	AW501075	Part No: AW501075	ABB	Châu Âu/OECD	3	set
104	O-ring Pack (4off)	AW501060	Part No: AW501060	ABB	Châu Âu/OECD	2	set
105	sodium electrode	AW501030	Part No: AW501030	ABB	Châu Âu/OECD	1	pcs
106	Reference Electrode for non Reservoir-Fed Systems	AW501035	Part No: AW501035	ABB	Châu Âu/OECD	1	pcs
107	reference electrode for reservoir-fed systems	AW501036	Part No: AW501036	ABB	Châu Âu/OECD	2	set
108	Entrainment Piece Assembly	AW501065	Part No: AW501065	ABB	Châu Âu/OECD	2	set
109	Reagent Solution Bottle Kit Assembly – includes hazard labels for Ammonia Solution and Separate hazard label for Di-isopropylamine (DIPA) Solution	AW501071	Part No: AW501071	ABB	Châu Âu/OECD	2	set
110	Solenoid valve	AW501077	Part No: AW501077	ABB	Châu Âu/OECD	4	set
111	Calibration Solution Bottle Kit Assembly	AW501070	Part No: AW501070	ABB	Châu Âu/OECD	2	set
112	Solenoid Valve – Multi- Stream Cal / Stream Switch	AW501053	Part No: AW501053	ABB	Châu Âu/OECD	4	set
113	Multi-stream Manifold Assembly	AW501055	Part No: AW501055	ABB	Châu Âu/OECD	2	set
114	STANDARD TRIP ELECTRIC-RESET LOCK OUT RELAY	7828HF	Coil specification: - Configuration : Std. Trip LOR/ER - No. of Decks:8 - Trip coil: + Trip coil ( Coil H): Nominal voltage 250 VDC. + Operating range 180-280 VDC + Threshold (Min): 140 VDC + Coil resistance: 104 Ohm + Coil burden (250 VDC): 2.4 AMP. -Reset coil: +Nominal voltage 250 VDC +Operating range 200-275 VDC/ +Coil resistance: 80.6 Ohm +Coil burden (250 VDC): 3.1 AMP	ELECTROSWITCH	Châu Âu/OECD	3	pcs



STT	Tên vật tư/mô tả	Ordering information (Part N0)	Thông số kỹ thuật	Nhà Sản xuất	Xuất xứ	Số lượng	Đơn vị
115	Monitor module	EV2456-BK	Screen size [in inches]: 24.1 Screen size [in cm]: 61.1 Format: 16:10 Pixel pitch [in mm]: 0.27 x 0.27 Supported resolutions: 1920 x 1200, 1680 x 1050, 1600 x 1200, 1280 x 1024, 1024 x 768, 800 x 600, 720 x 400, 640 x 480 Panel technology: IPS Signal inputs: DisplayPort (HDCP 1.3), HDMI (HDCP 1.4), DVI-D (HDCP 1.4), D-Sub Color palette/look-up table 1.06 billion color tones / 10 Bit Max. brightness (typical) [in cd/m <sup>2</sup> ]: 350 Max. dark room contrast (typical) 1000:1 Dimensions (incl. stand) (width x height x depth) [in mm]: 531 x 351,4 - 510,1 x 190 Certification CE, UKCA, CB, TÜV/GS, TÜV/Ergonomics (including ISO 9241-307), TCO Certified Generation 9, EPEAT 2018 (US), TÜV/Low Blue Light Content, TÜV/Flicker Free, RCM, cTÜVus, FCC-B, CAN ICES-3 (B), TÜV/S, PSE, VCCI-B, EPA ENERGY STAR, RoHS, WEEE, China RoHS, CCC	Eizo		2	pcs
116	LAN SWITCH	AT-GS910/24-50	Switching Capacity: 480Gbps Throughput: 35.7Mpps Mac Address: Max 8K Power Current 0.4A Max power consumption: 17W Number of port: 24 Interface port connection: 10/100/1000T RJ45 Rate voltage: 100-240VAC Frequency: 50-60Hz	ALLIED TELESIS		1	pcs
117	Media Converter Chassis Power Supply Unit	AT-MMCR-PWR-AC-60	Part No: AT-MMCR-PWR-AC-60 AC power supply with NA, AU, UK and EU power cords	ALLIED TELESIS		2	pcs
118	Transceivers	AT-SPLX10/E	Ordering Information: AT-SPLX10/E Fiber type: SMF Connector Type: LC Maximum distance: 10km TX Wavelength: 1310nm Receive sensitivity: -21dBm Power Budget(dB): 12	ALLIED TELESIS		6	pcs
119	Fiber Optical Converter module	AT-MMC2000/SP-960	Ordering Information: AT-MMC2000/SP-960 - 10/100/1000T to 100/1000X SFP Media and Rate Converter - Electrical and Mechanical Approvals: Safety: UL60950-1, EN60950-1	ALLIED TELESIS		6	pcs
120	Relay	MKS2XTN-11	-Coil Current: 63.2 mA -Coil: 24VDC -Coil resistance: 380Ω -Must operate voltage (V): 80% max. -Must release voltage (V): 15% min. -Maximum voltage allowable (V): 110% -Power consumption (VA, W): Approx. 1.5 W -Contact Ratings for Models for DC Loads +Contact configuration: NO :Double-break; NC : Single-break +Contact Material: Silver Tin Indium (AgSnIn) +Max. switching voltage: 220VDC	OMRON		6	pcs
121	Media converter chassis	AT-MMCR18-00	Ordering Information: AT-MMCR18-00 -18 slot media converter chassis. - Dimensions: W x H x D: 439 mm x 86mm x 239 mm	ALLIED TELESIS		1	pcs



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122	Power Supply Module	VM-751B1	<ul style="list-style-type: none"> <li>-Install location: P1 slot (Primary / upper position)</li> <li>-INPUT</li> <li>+Rated voltage : 100-240VAC/50-60HZ</li> <li>-OUTPUT</li> <li>+Power output : Output to each module via mother board</li> <li>+Rated Voltage : 26V (Primary), 24V (Secondary)</li> <li>+Rated Power : 180W</li> <li>+Indicators : POWER-OK LED (Green)</li> <li>-MATERIAL:</li> <li>+Face plate : ABS(Black)</li> <li>+Sheet : Polyester tough top (Gray)</li> <li>+Base plate : Aluminium alloy (Silver)</li> </ul>	Shinkawa	OECD	1	pcs
123	Vibration/Displacement Monitor Module	VM-701B/PM0/ALY/TB1	<ul style="list-style-type: none"> <li>Phase Marker Function: 0</li> <li>Analysis Function: With</li> <li>I/O terminal block for: VM-761B instrument rack</li> <li>- INPUT</li> <li>+Input points : 4point</li> <li>+Input impedance : Approx. 50kΩ (Current signal input: Approx. 250Ω)</li> <li>- OUTPUT</li> <li>+Indicators : OK LED (Green)</li> <li>+Monitor output : Input signal is output via buffer amplifier; Location : BNC (Front) and connector (Back); Output impedance : Approx. 100Ω (Max.5mA)</li> <li>+Recorder output : Voltage or current output proportional to measurement value.</li> <li>+Transducer power supply : Proximity transducer : -24VDC±10% / 25mA Max ; Piezoelectric transducer : +24VDC±10% / 4mA (constant current)</li> </ul>	Shinkawa	OECD	2	pcs
124	Panel PC	JP150SH	<ul style="list-style-type: none"> <li>Industrial 15" Panel PC JP150SH</li> <li>- Display:</li> <li>+15", 1024 x 768 dots</li> <li>+ Backlight Lifetime -- Typ. 70,000 Hrs</li> <li>+ Luminance (cd/m<sup>2</sup>) : 300</li> <li>- CPU: 6th Intel® Core i5</li> <li>- Memory: DDR4 8GB</li> <li>- SSD: 1TB</li> <li>- 4 x COM ports, 6 USB Port, 2 LAN Port.</li> <li>- Power Input: AC 90V ~ 264V.</li> <li>- Dimension (W x H x D): 368 x 292 x 112.5 mm</li> <li>- Optional Touch screen:</li> <li>+Analog Resistive Type;</li> <li>+5-Wire Type;</li> <li>+Controller USB Interface;</li> <li>+Software Driver : Windows 7</li> </ul>	Jinyoung Contech	OECD	1	pcs
125	Signal Splitter/Repeater	DN21000S	<ul style="list-style-type: none"> <li>Isolation, Conversion and Loop Supply of Standard Signals with 2 Outputs</li> <li>INPUT</li> <li>- Input signal: 0 ... 20 mA; 0 ... 10 V; 0 ... 5 V</li> <li>- (calibrated switchable) 4 ... 20 mA; 2 ... 10 V; 1 ... 5 V</li> <li>- Input resistance</li> <li>+Current input: ≤ 35 Ω</li> <li>+Voltage input: ≥ 100 kΩ</li> <li>-Transmitter supply Tx (switchable): 16 V</li> <li>OUTPUT I/OUTPUT II</li> <li>- Output signal: 0 ... 20 mA; 0 ... 10 V; 0 ... 5 V</li> <li>- (calibrated switchable) 4 ... 20 mA; 2 ... 10 V; 1 ... 5 V</li> <li>- Load:</li> <li>+ Current output: ≤ 6 V (300 Ω at 20 mA)</li> <li>+ Voltage output: ≤ 5 mA (2 kΩ at 10 V)</li> <li>-Linear transmission range: -1 ... +10 %</li> <li>-Residual ripple &lt; 10 mVrms</li> </ul>	Drago		2	pcs



STT	Tên vật tư/mô tả	Ordering information (Part N0)	Thông số kỹ thuật	Nhà Sản xuất	Xuất xứ	Số lượng	Đơn vị
126	8AI/8DI/4DO/4-Slot Expansion Wireless Intelligent RTU	ADAM-3600-C2GL1A1E	<ul style="list-style-type: none"> <li>- CPU: Cortex-A8 AM3352</li> <li>- Memory: RAM 256MB ; Battery Backup RAM 32KB</li> <li>- OS: RT-Linux V3.12</li> <li>- Storage: SD card slot</li> <li>- Programming: IEC-61131-3, Linux C</li> <li>- Communication: Modbus/TCP, DNP3 L2, TCP/IP, DHCP, IEC104</li> <li>- Certification: CE/FCC</li> </ul> Includes: <ul style="list-style-type: none"> <li>- Analog Input module ADAM-3617 (03 pcs)</li> <li>- Digital Input Module ADAM-3651 (01 pcs)</li> </ul>	ADVANTECH		1	set
127	High Temperature Cable	HTC - 10M	<ul style="list-style-type: none"> <li>- AE Sensor → Pre-Amplifier</li> <li>- Standard : RG316/U-FEP</li> <li>- Temperature Range : -55 to 200°C</li> <li>- Impedance : 50Ω</li> <li>- Capacitance : 95pF/m</li> <li>- Length : 10m</li> </ul>	ORBIS		4	pcs
128	Boiler Tube Leak Detection - Preamplifier	BTPR-18	<ul style="list-style-type: none"> <li>- Frequency: 0.1 ~ 35kHz</li> <li>- Input Impedance: 100MΩ</li> <li>- Operation Voltage: 12VDC</li> <li>- Connection: BNC Type</li> <li>- Case Material: Aluminium</li> <li>- Amplification : 10 times fixed type</li> <li>- Output Range : -700mVp ~ 700mVp</li> </ul>	ORBIS	OECD	5	set


