

**PHỤ LỤC**  
**DANH MỤC, SỐ LƯỢNG VẬT TƯ DỰ PHÒNG HỆ THỐNG THIẾT BỊ DÙNG CHUNG (VTCL)**  
*(Kèm theo Công văn số 214/TM-NB ngày 29/6/2023)*

STT	Mã KKS	Tên thiết bị/vật tư	Đơn vị	Mã vật tư	Nhà sản xuất/ Xuất xứ	Kiểu / loại/ Đặc tính kỹ thuật	Mã đặt hàng/Bản vẽ	Số lượng cần mua sắm
15	10/20MAA11....CT 021.....	Temperature transmitter	Cái	34422158	Wika	Model: T32.1S - Input: Thermocouple type K (NiCr-Ni); - Measuring range: 0 °C ... +700°C; - Power supply: DC 10.5...42V; - Analogue output: 4...20mA, 2-wire; - Ambient temperature: -40...85°C	Ordering cod: T32.1S.000-Z	3
17	11/21HAD10CL002 11/21HAD10CL003 12/22HAD10CL001 12/22HAD10CL003 12/22HAD10CL002 11/21HAD10CL001	Differential pressure and flow	Bộ	34424341	SIEMENS/ EU	- SITRANS P320 - Measuring cell filling: Silicone oil; - Span: 250mbar; - Process connection: Oval flange, mounting thread: M10 (PN 160) (DIN 19213) - Wetted parts materials: Stainless steel 316L/1.4404, stainless steel 316L/1.4404 - Non-wetted parts materials: Die-cast aluminum - Enclosure: Dual chamber device - Type of protection: Without Ex - Electrical connections/cable entries: 2 x M20 x 1.5 - Local operation/display: With display (cover with glass pane) - Cable glands included: Stainless steel 316L/1.4404 - O-rings for process flanges: FFKM (FFPM) - General approval without Ex approval: Worldwide (CE, RCM, EAC, FM, CSA, KCC) - Output: 4 ... 20 mA; - Power supply: 10.5 ... 45 V DC;	Article No.: 7MF0340-1GM01-5AF2-Z, A03+C11+E01+H03 +K52	2
18	12/22HAC60CP002 11/21HAC60CP002 12/22HAC60CP001 11/21HAC60CP001	Pressure Transmitter	Bộ	34480260	SIEMENS/ EU	- SITRANS P320 - Communication: HART, 4 ... 20 Ma - Measuring cell filling:Silicone oil -Maximum measuring span:160 bar - Process connection: Male thread G½ (DIN EN 837-1) - Wetted parts materials: Process connection, seal diaphragm:Stainless steel 316L/1.4404, stainless steel 316L/1.4404 - Non-wetted parts materials: Die-cast aluminum - Enclosure: Dual chamber device - Type of protection:Without Ex - Electrical connections/cable entries:2 x M20 x 1.5 - Local operation/display: With display (cover with glass pane) - Cable glands included: Stainless steel 1.4404/316L - General approval without Ex approval: Worldwide (CE, RCM, EAC, FM, CSA, KCC) - Output: 4 ... 20 mA; - Power supply: 10.5 ... 45 V DC;	Article No.: 7MF0300-1VD01-5AF2-Z, A03+C11+E01+H03	1
19	10/20MAV31..CP001	Pressure Transmitter	Bộ	34480340	SIEMENS/ EU	- SITRANS P320 - Communication: HART, 4 ... 20 Ma - Measuring cell filling:Silicone oil - Maximum measuring span:400 bar - Process connection: Male thread G½ (DIN EN 837-1) - Wetted parts materials: Process connection, seal diaphragm:Stainless steel 316L/1.4404, stainless steel 316L/1.4404 - Non-wetted parts materials: Die-cast aluminum - Enclosure: Dual chamber device - Type of protection:Without Ex - Electrical connections/cable entries:2 x M20 x 1.5 - Local operation/display: With display (cover with glass pane) - Cable glands included: Stainless steel 1.4404/316L - General approval without Ex approval: Worldwide (CE, RCM, EAC, FM, CSA, KCC) - Output: 4 ... 20 mA; - Power supply: 10.5 ... 45 V DC;	Article No.: 7MF0300-1WD01-5AF2-Z, A03+C11+E01+H03	1

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20	11/21HAD50CP001 11/21HAD50CP003 12/22HAD50CP002 12/22HAD50CP001 11/21HAD50CP002 12/22HAD50CP003	Pressure Transmitter	Bộ	34424326	SIEMENS/ EU	<ul style="list-style-type: none"> <li>- SITRANS P320</li> <li>- Communication: HART, 4 ... 20 Ma</li> <li>- Measuring cell filling:Silicone oil</li> <li>-Maximum measuring span: 63 bar</li> <li>- Process connection: Male thread G½ (DIN EN 837-1)</li> <li>- Wetted parts materials: Process connection, seal diaphragm:Stainless steel 316L/1.4404, stainless steel 316L/1.4404</li> <li>- Non-wetted parts materials: Die-cast aluminum</li> <li>- Enclosure: Dual chamber device</li> <li>- Type of protection:Without Ex</li> <li>- Electrical connections/cable entries:2 x M20 x 1.5</li> <li>- Local operation/display: With display (cover with glass pane)</li> <li>- Cable glands included: Stainless steel 1.4404/316L</li> <li>- General approval without Ex approval: Worldwide (CE, RCM, EAC, FM, CSA, KCC)</li> <li>- Output: 4 ... 20 mA;</li> <li>- Power supply: 10.5 ... 45 V DC;</li> </ul>	Article No.: 7MF0300-1TD01-5AF2-Z, A03+C11+E01+H03	2
23	11/21LAB30CF001 12/22LAB30CF001	Differential pressure and flow transmitter	Bộ	34424303	SIEMENS/ EU	<ul style="list-style-type: none"> <li>- SITRANS P320</li> <li>- Measuring cell filling: Silicone oil;</li> <li>- Span: 1600mbar;</li> <li>- Process connection: Oval flange, mounting thread: 7/16-20 UNF (IEC 61518) with lateral ventilation</li> <li>- Wetted parts materials: Stainless steel 316L/1.4404, stainless steel 316L/1.4404</li> <li>- Non-wetted parts materials: Die-cast aluminum</li> <li>- Enclosure: Dual chamber device</li> <li>- Type of protection: Without Ex</li> <li>- Electrical connections/cable entries: 2 x M20 x 1.5</li> <li>- Local operation/display: With display (cover with glass pane)</li> <li>- Cable glands included: Stainless steel 316L/1.4404</li> <li>- O-rings for process flanges: FFKM (FFPM)</li> <li>- General approval without Ex approval: Worldwide (CE, RCM, EAC, FM, CSA, KCC)</li> <li>- Output: 4 ... 20 mA;</li> <li>- Power supply: 10.5 ... 45 V DC;</li> </ul>	Article No.: 7MF0340-1MN01-5AF2-Z, A03+C11+E01+H03 +K52	1
24	11/12/21/22MBA51 CP101/102 11/12/21/22MBA53 CP101...104	Pressure Transmitter	Bộ	34480340	SIEMENS/ EU	<ul style="list-style-type: none"> <li>- SITRANS P320</li> <li>- Communication: HART, 4 ... 20 Ma</li> <li>- Measuring cell filling:Silicone oil</li> <li>- Maximum measuring span:400 bar</li> <li>- Process connection: Male thread G½ (DIN EN 837-1)</li> <li>- Wetted parts materials: Process connection, seal diaphragm:Stainless steel 316L/1.4404, stainless steel 316L/1.4404</li> <li>- Non-wetted parts materials: Die-cast aluminum</li> <li>- Enclosure: Dual chamber device</li> <li>- Type of protection:Without Ex</li> <li>- Electrical connections/cable entries:2 x M20 x 1.5</li> <li>- Local operation/display: With display (cover with glass pane)</li> <li>- Cable glands included: Stainless steel 1.4404/316L</li> <li>- General approval without Ex approval: Worldwide (CE, RCM, EAC, FM, CSA, KCC)</li> <li>- Output: 4 ... 20 mA;</li> <li>- Power supply: 10.5 ... 45 V DC;</li> </ul>	Article No.: 7MF0300-1WD01-5AF2-Z, A03+C11+E01+H03	2
25	11/12/21/22MBD11/ 12/21/22CY111/112-U01	Signal conditioner	Bộ	34427910	MEGGITT/ EU	<ul style="list-style-type: none"> <li>Environment (A): Standard</li> <li>Measurement range: 12 mm</li> <li>Sensitivity (B): 4mV/µm</li> <li>Diagnostics (C): Without diagnostics</li> <li>Total system length (H): 10</li> <li>Installation (I): Without DIN-rail adaptor</li> </ul>	Ordering number: 204-900-000-011 A1-B23-C1-H10-I0	1

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27	11/12/21/22MBD11/ 12/21/22CY111/112- B0	Proximity transducer	Bộ	33262046	MEGGITT/ EU	Environment: Standard Body thread: M10 × 1 Body length: 72 mm Unthreaded length : 0 mm Integral cable length: 10 m ±1000 mm Cable: Flexible hose with FEP sheath Connector: None Flexible hose length: 9.8 m max Total system length : 10m	Ordering number: 111-402-000-013- A1-B1-C072- D000-E050-F2- G050-H10	2
29	10/20MKD11CY041 10/20MKD11CY042 10/20MKD12CY041 10/20MKD12CY042 11/21MKD11CY041 11/21MKD11CY042 11/21MKD12CY041 11/21MKD12CY042 12/22MKD11CY041 12/22MKD11CY042 12/22MKD12CY041 12/22MKD12CY042	Signal conditioner	Cái	34427606	MEGGITT/ EU	Environment (A): Standard Measurement range: 12 mm Sensitivity (B): 4mV/μm Diagnostics (C): Without diagnostics Total system length (H): 5 m Installation (I): Without DIN-rail adaptor	Ordering number: 204-900-000-011 A1-B23-C1-H05- I0	1
31	12BFE53	CIRCUIT BREAKER 1,4- 2A	Cái	34617020	Siemens AG		3RV1011-1BA10	3
32	-103F1 -105F1 -105F6 -114F1.1	MIN.CIRC.- BREAK.C10A 1P 25kA	Cái		SIEMENS		5SY8110-7	1
33	6F4 / 2F3 / 2F4 4F1	3P CIRCUIT BREAKER 4A ul	Cái	34617125	Schnider	Motor circuit breaker, TeSys Deca, 3P, 2.5 to 4A, thermal magnetic, screw clamp terminals, button control GV2ME		2
34	2F2 6F5	Miniature Circuit Breaker	Cái	34617206	SIEMENS	6A, 2-Pole, 220/440VDC, 400VAC	5SX5206-7	1
						<b>AC operation</b> Network type Star network Nominal input voltage range 100 V AC ... 240 V AC Input voltage range 100 V AC ... 240 V AC -15 % ... +10 % Derating < 100 V AC (1 %/V) Electric strength, max. 300 V AC 60 s Typical national grid voltage 120 V AC 230 V AC Voltage type of supply voltage AC Inrush current typ. 12 A (at 25 °C) Inrush current integral (I <sub>2t</sub> ) < 0.7 A <sub>2s</sub> Inrush current limitation 12 A (after 1 ms) AC frequency range 50 Hz ... 60 Hz -10 % ... +10 % <b>DC operation</b> Nominal input voltage range 110 V DC ... 250 V DC Input voltage range 110 V DC ... 250 V DC -18 % ... +40 % Derating < 110 V DC (1 %/V) Voltage type of supply voltage DC Current consumption 3 A (110 V DC)		

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49	-105G1	POWER SUPPLY UNIT 24VDC, 10A	Cái		OENIX CONTA	<b>Output data</b> Efficiency typ. 92.5 % (120 V AC) typ. 93.4 % (230 V AC) Output characteristic U/I Advanced Smart HICCUP FUSE MODE Nominal output voltage 24 V DC Setting range of the output voltage (USet) 24 V DC ... 29.5 V DC (constant capacity) Nominal output current (IN) 10 A Static Boost (IStat.Boost) 12.5 A Dynamic Boost (IDyn.Boost) 20 A (5 s) Selective Fuse Breaking (ISFB) 60 A (15 ms) Magnetic circuit breaker tripping A1...A6 / B2...B6 / C1...C3 / Z1...Z6 Derating > 60 °C ... 70 °C (2.5%/K) Feedback voltage resistance ≤ 35 V DC Protection against overvoltage at the output (OVP) ≤ 32 V DC Control deviation < 0.5 % (Static load change 10 % ... 90 %) < 4 % (Dynamic load change 10 % ... 90 %, (10 Hz)) < 0.25 % (change in input voltage ±10 %)	2904601	1
54	11/21CYQ00GH001 12/22CYQ00GH001	Network Communications Module, twisted-pair wire interface	Cái	38122046	Honeywell/ USA	<ul style="list-style-type: none"> <li>- Supports twisted-pair wire medium.</li> <li>• NFPA Style 4 (Class B) operation or NFPA Style 7 (Class A) operation.</li> <li>• Two programmable data thresholds.</li> <li>• Transformer coupling provides electrical isolation between nodes.</li> <li>• Pluggable terminal wiring with strain relief.</li> <li>• Pluggable service connector (feeds signal directly through) in the event that power must be removed from a node.</li> <li>• 312.5 Kbaud transmission rate.</li> <li>• Data is regenerated at each node.</li> <li>• Two network ports to allow simultaneous connection to fire alarm control panel and to programming computer.</li> <li>• Enables software and database upload/download over NOTI•FIRE•NET™.</li> <li>• Repeaters are available to increase signal.</li> <li>• Repeaters may be utilized to switch media type.</li> <li>• Up to 3,000 feet (914.4 m) between nodes in a point-to-point fashion (actual distance varies with wire quality)</li> </ul>	NCM-W	1
65	11/21CYQ00GH002	Mini Monitor Module	Cái	38381650	Honeywell/ USA	FMM-101(A) is a miniature monitor module a mere 1.3" (3.302 cm) H x 2.75" (6.985 cm) W x 0.65" (1.651 cm) D that supervises a Style B (Class B) circuit of dry-contact input devices. Its compact design allows the FMM-101(A) to be mounted in a single-gang box behind the device it monitors.	FMM-101(A)	5
68	00ADA03GS020.V9 ,10,59,69,75	VARISTOR	Cái	39070113	Siemens	VARISTOR, AC 127...240 V,DC 150...250 V, SURGE SUPPRESSOR, FOR MOUNTING ONTO CONTACTORS SIZES00	51264/3RT1916-11	2
88	10/20MAX01AN011 -M01	Bearing	Cái	50137104	SKF	6004 - 2Z/C3		2
89	10/20MAX01/05AP 012-M01...	Bearing	Cái	50137205	SKF	6205-2Z/C3		3

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106	11/12/21/22MBK21 AU001-S11/21	Inductive sensor IG5456	Bộ	34490456	IFM Electronic/ Asia	Electrical design: PNP Output function: normally open Sensing range [mm]: 5 Housing: Threaded type Dimensions [mm]: M18 x 1 / L = 80 Operating voltage [V]: 10...36 DC Electrical design: PNP Output function: normally open MTTF [years]: 1884	IGA3005- BPKG/V4A	2
109	11/12/21/22MBN14/ 23/52AA051- S11/12/21/22/21/22	Inductive sensor	Bộ	56269832	Pepperl+Fuchs/ Asia	- Switching function: complementary - Output type: PNP - Operating voltage UB: 10 ... 30 V DC - Switching frequency f: 0 ... 800 Hz - Voltage drop Ud ≤ :3 V - Operating current IL:0 ... 200 mA	NBB5-18GM60- A2-V1-3G-3D	3
115	10/20MAB50CT021 ...	Thermocouple	Cái	56530042	THERMO-EST MESSGERAET E GmbH	Type: TC-JI-K Inc30D-3000-100 Measuring element :2xNICR-NI	Order no: A67J48K29/A2A 00575939 Characteristics: M3*3000 ; L=10 Design Group : 12453000 Part no: 4750301	1
117	11/21MBP13CP101 11/21MBP13CP102 11/21MBP14CP101 11/21MBP40CP101 12/22MBP13CP101 12/22MBP13CP102 12/22MBP14CP101 12/22MBP40CP101	Pressure Transmitter	Bộ	34424326	SIEMENS/ EU	- SITRANS P320 - Communication: HART, 4 ... 20 Ma - Measuring cell filling:Silicone oil -Maximum measuring span: 63 bar - Process connection: Male thread G½ (DIN EN 837-1) - Wetted parts materials: Process connection, seal diaphragm:Stainless steel 316L/1.4404, stainless steel 316L/1.4404 - Non-wetted parts materials: Die-cast aluminum - Enclosure: Dual chamber device - Type of protection:Without Ex - Electrical connections/cable entries:2 x M20 x 1.5 - Local operation/display: With display (cover with glass pane) - Cable glands included: Stainless steel 1.4404/316L - General approval without Ex approval: Worldwide (CE, RCM, EAC, FM, CSA, KCC) - Output: 4 ... 20 mA; - Power supply: 10.5 ... 45 V DC;	Article No.: 7MF0300-1TD01- 5AF2-Z, A03+C11+E01+H 03	3
119	10/20BTL1010/20B TL20	fuse link	Cái	56570307	Littlefuse/ Asia	Detailed Description: 6.3 A 250 V AC DC Fuse Cartridge, Ceramic Requires Holder 5mm x 20mm	Manufacturer Product Number: 021506.3HXP	2
136	11/21CPA01.CA004 11/21CPA01.CA005 11/21CPA01.CA006 11/21CPA01.CA007 11/21CPA01.CA009 11/21CPA01.CB006 11/21CPA01.CB004 11/21CPA01.CB005 11/21CPA01.DA004 11/21CPA01.DA005 11/21CPA01.DA006 11/21CPA01.DA008 11/21CPA01.DB003 11/21CPA01.DB004 11/21CPA01.DC003 11/21CPA02.CA004 11/21CPA02.CA005 11/21CPA02.CB003 11/21CPA02.CB004 11/21CPA02.CB005 11/21CPA02.CB006 11/21CPA02.CB007 11/21CPA02.DA004	DIGITAL INPUT/OUTPUT DI16/DO16 channel	Cái	56580356	SIEMENS/ EU	Simatic S7-300, Digital Module Sm 323, Optically Isolated, 16 Di And 16 Do, 24VDC, 0.5A, Aggregate Current 4A, 40Pin	6ES7323-1BL00- 0AA0	4

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137	10CJC01	OSM ITP62	Cái	56580363	SIEMENS/ EU	OSM ITP62 Optical Switch Module with two LWL ports 100 Mbit/s, six ITP ports 10/100 Mbit/s and eight digital Inputs; redundant DC 24V Infeed Signaling contact integrated redundancy manager, with network management max. Ambient temperature +55 °C	6GK1105-2AA10	2
140	-105G4	DIODE MODULE	Cái	56580390	Phoenix Contact/ Asia	Degree of protection IP20 Ambient temperature (operation) -40 °C ... 70 °C (> 60 °C Derating: 2.5 %/K) Ambient temperature (storage/transport) -40 °C ... 85 °C Nominal input voltage range 12 V DC ... 24 V DC; 12 V DC ... 24 V DC Input voltage range 10 V DC ... 30 V DC; 10 V DC ... 30 V DC Nominal input current 2x 20 A (-25 °C ... 60 °C); 1x 40 A (-25 °C ... 60 °C) Maximum input current 2x 30 A (-25°C ... 40°C); 1x 60 A (-25°C ... 40°C) Nominal input current 2x 20 A (-25 °C ... 60 °C); 1x 40 A (-25 °C ... 60 °C) Maximum input current 2x 30 A (-25°C ... 40°C); 1x 60 A (-25°C ... 40°C) Setting range of the output voltage (USet) 12 V DC ... 24 V DC Nominal output current (IN) 40 A (Increasing power) 20 A (Redundancy) Derating 60 °C ... 70 °C (2.5%/K) Power loss nominal load max. 10 W (IOUT = 20 A)	QUINT-DIODE/12-24DC/2X20/1X40	2
141	11/21MAN52CP011 ...	Pressure Transmitter	Cái	34424326	SIEMENS/ EU	- SITRANS P320 - Communication: HART, 4 ... 20 Ma - Measuring cell filling:Silicone oil -Maximum measuring span: 63 bar - Process connection: Male thread G½ (DIN EN 837-1) - Wetted parts materials: Process connection, seal diaphragm:Stainless steel 316L/1.4404, stainless steel 316L/1.4404 - Non-wetted parts materials: Die-cast aluminum - Enclosure: Dual chamber device - Type of protection:Without Ex - Electrical connections/cable entries:2 x M20 x 1.5 - Local operation/display: With display (cover with glass pane) - Cable glands included: Stainless steel 1.4404/316L - General approval without Ex approval: Worldwide (CE, RCM, EAC, FM, CSA, KCC) - Output: 4 ... 20 mA; - Power supply: 10.5 ... 45 V DC;	Article No.: 7MF0300-1TD01-5AF2-Z, A03+C11+E01+H03	2
142	10/20MAB50CP021	Pressure Transmitter	Bộ	56580577	SIEMENS/ EU	- SITRANS P320 - Communication: HART, 4 ... 20 Ma - Measuring cell filling:Silicone oil -Maximum measuring span: 16 bar - Process connection: Male thread G½ (DIN EN 837-1) - Wetted parts materials: Process connection, seal diaphragm:Stainless steel 316L/1.4404, stainless steel 316L/1.4404 - Non-wetted parts materials: Die-cast aluminum - Enclosure: Dual chamber device - Type of protection:Without Ex - Electrical connections/cable entries:2 x M20 x 1.5 - Local operation/display: With display (cover with glass pane) - Cable glands included: Stainless steel 1.4404/316L - General approval without Ex approval: Worldwide (CE, RCM, EAC, FM, CSA, KCC) - Output: 4 ... 20 mA; - Power supply: 10.5 ... 45 V DC;	Article No.: 7MF0300-1QD01-5AF2-Z, A03+C11+E01+H03	2

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149	01/02CJC01110/20CJC01	ANALOG INPUT 8CHANNEL	Cái	56580136	SIEMENS/ EU	Model:SM331; Type:AI8*12BIT Load voltage L+ <ul style="list-style-type: none"> <li>• Rated value (DC) 24 V</li> <li>• Reverse polarity protection Yes</li> </ul> Input current: from load voltage L+ (without load), max. 30 mA; from backplane bus 5 V DC, max. 50 mA Power loss, typ. 1 W Number of analog inputs <ul style="list-style-type: none"> <li>• For resistance measurement 4; permissible input voltage for voltage input (destruction limit), max: 20 V; continuous; 75 V for max. 1 s (mark to space ratio 1:20); permissible input current for current input (destruction limit), max: 40 mA ;Constant measurement current for resistance-type transmitter, typ. : 1.67 mA</li> </ul> Input ranges <ul style="list-style-type: none"> <li>• Voltage Yes</li> <li>• Current Yes</li> <li>• Thermocouple Yes</li> <li>• Resistance thermometer Yes</li> <li>• Resistance Yes</li> </ul>	Order No: 6ES7331-7KF02-0AB0	2
153	00ADA01GS410.Y1 ,00ADA02GS410.Y1...	COIL	Cái		NAFSA	110-220VAC/DC	153.214.6	1
155	00ADA03GS020.Y1	TRIP COIL	Cái		Siemens	110VDC	412 10676 033	2
159	00ADA01GS410.KM1,KM2, 00ADA02GS410.KM1, KM2...	CONTACTOR	Cái		Schnider	LP1K09004FD 4P(4NO),AC-1, 440V, 20A, 110V DC coil, screw clamp terminals		1