

Certificate



Product Safety
Functional
Safety

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ID 060000000

No.: 968/FSP 1910.00/19

Product tested	Safety-Related Programmable Electronic System	Certificate holder	Rockwell Automation, Inc. 1201 South Second Street Milwaukee, WI 53204 USA
Type designation	AADvance System, Details see actual "Revision List"		
Codes and standards	IEC 61508 Parts 1-7:2010 IEC 61131-2:2017 IEC 61326-3-1:2017	EN 61000-6-7:2015 EN 50130-4:2011 + A1:2014 EN 50178:1997	
Intended application	The product complies with the requirements of SC 3 and SIL 3 according to IEC 61508 and can be used in safety-related applications for Process Control, Burner Management, Fire & Gas, Emergency Shutdown Systems, where the safe state is the de-energized state and applications, where the demand state is the de-energized or energized state, up to SIL 3. The product was also reviewed in reference to the requirements of IEC 61511-1:2017+A1:2017, EN 50156-1:2015, EN 54-2:1997+AC:1999+A1:2006, NFPA 72:2019, NFPA 85:2019, NFPA 86:2019, applicable during a type examination and can be used in application as such.		
Specific requirements	For the use of the system the safety manual, product descriptions and the actual Revision List released by Rockwell Automation, Inc. and TÜV Rheinland must be considered.		

Valid until 2024-07-11

The issue of this certificate is based upon an examination, whose results are documented in Report No. 968/FSP 1910.00/19 dated 2019-07-11.

This certificate is valid only for products which are identical with the product tested.

TÜV Rheinland Industrie Service GmbH
Bereich Automation
Funktionale Sicherheit
Am Grauen Stein, 51105 Köln

Köln, 2019-07-11

Certification Body Safety & Security for Automation & Grid

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AADvance V1.41 System

Safety related modules / components

Type Designation	Description	HW / SW Revision		Report-No.:	Certification Status
T9100	Processor Base	D2, E2, F2, G2		968/FSP 1910.00/19	<i>Valid</i>
T9110	Processor Module	H18, H19, I18, I19, J20, K21	See Note 1	968/FSP 1910.00/19	<i>Valid</i>
		K22		968/FSP 1910.01/21	<i>Valid</i>
		K23	354170 Build 1.041.3	968/FSP 1910.02.21	<i>Valid</i>
T9110 ControlFLASH	Firmware for the Processor Module	354400 V1.41 (Build 1.041.3)		968/FSP 1910.02/21	<i>Valid</i>
T9110 Recovery ControlFLASH	Recovery Firmware for the Processor Module	354720 V1.001.103 - (Build 0103)		968/FSP 1910.00/19	<i>Valid</i>
T9300	I/O Base Unit	B, C, D		968/FSP 1910.00/19	<i>Valid</i>
T9401	Digital Input Module, 24Vdc, 8 Channel, Isolated	H15 I15	354080 Build 158 354250 Build 174 354270 Build 180 390450 Build 152	968/FSP 1910.00/19	<i>Valid</i>
		H16 I16	354080 Build 158 354250 Build 175 354270 Build 180 390450 Build 152	968/FSP 1910.00/19	<i>Valid</i>
T9402	Digital Input Module, 24Vdc, 16 Channel, Isolated	D15 F15	354080 Build 158 354250 Build 174 354270 Build 180 390450 Build 152	968/FSP 1910.00/19	<i>Valid</i>
		D16 F16	354080 Build 158 354250 Build 175 354270 Build 180 390450 Build 152	968/FSP 1910.00/19	<i>Valid</i>

Type Designation	Description	HW / SW Revision		Report-No.:	Certification Status
T9431	Analogue Input Module, 8 Channel, Isolated	H15 I15	354080 Build 158 354250 Build 174 354270 Build 180 390450 Build 152	968/FSP 1910.00/19	<i>Valid</i>
		H16 I16	354080 Build 158 354250 Build 175 354270 Build 180 390450 Build 152	968/FSP 1910.00/19	<i>Valid</i>
T9432	Analogue Input Module, 16 Channel, Isolated	D15 F15	354080 Build 158 354250 Build 174 354270 Build 180 390450 Build 152	968/FSP 1910.00/19	<i>Valid</i>
		D16 F16	354080 Build 158 354250 Build 175 354270 Build 180 390450 Build 152	968/FSP 1910.00/19	<i>Valid</i>
T9451	Digital Output Module, 24Vdc, 8 Channel, Commoned	H13 J13 K13	354270 Build 162 390470 Build 158	968/FSP 1910.00/19	<i>Valid</i>
T9481	Analogue Output Module, 3 Channel	J14 K14	354270 Build 160 354440 Build 150 354450 Build 150 390490 Build 151	968/FSP 1910.00/19	<i>Valid</i>
T9482	Analogue Output Module, 8 Channel	O14 P14	354270 Build 160 354440 Build 150 354450 Build 150 390490 Build 151	968/FSP 1910.00/19	<i>Valid</i>
T9801	Digital Input TA, 16 Channel, Simplex, Commoned	F G		968/FSP 1910.00/19	<i>Valid</i>

Type Designation	Description	HW / SW Revision	Report-No.:	Certification Status
T9802	Digital Input TA, 16 Channel, Dual, Isolated	E F	968/FSP 1910.00/19	<i>Valid</i>
T9803	Digital Input TA, 16 Channel, TMR, Isolated	F G	968/FSP 1910.00/19	<i>Valid</i>
T9831	Analogue Input TA, 16 Channel, Simplex, Commoned	F G	968/FSP 1910.00/19	<i>Valid</i>
T9832	Analogue Input TA, 16 Channel, Dual, Isolated	E F	968/FSP 1910.00/19	<i>Valid</i>
T9833	Analogue Input TA, 16 Channel, TMR, Isolated	F G	968/FSP 1910.00/19	<i>Valid</i>
T9851	Digital Output TA, 8 Channel, Simplex, Commoned	E F	968/FSP 1910.00/19	<i>Valid</i>
T9852	Digital Output TA, 8 Channel, Dual, Commoned	E F	968/FSP 1910.00/19	<i>Valid</i>
T9881	Analogue Output TA, 8 Ch, Simplex, Commoned	B C	968/FSP 1910.00/19	<i>Valid</i>
T9882	Analogue Output TA, 8 Ch, Dual	B C	968/FSP 1910.00/19	<i>Valid</i>

Note 1: The firmware must be upgraded using the ControlFLASH files listed in the table.

Software tools

Type Designation	Description	SW Revision	Report-No.:	Certification Status
T9030	OPC Portal	354190 Build 1.40.000.92	968/FSP 1910.01/21	<i>Valid</i>
T9082U	IEC 61131 Workbench, USB, 1 User, 1 Controller	354130 Build 1.40.000.92	968/FSP 1910.01/21	<i>Valid</i>
T9082D	IEC 61131 Workbench, Hard Drive, 1 User, 1 Controller	354130 Build 1.40.000.92	968/FSP 1910.01/21	<i>Valid</i>
T9083U	IEC 61131 Workbench, USB, 1 User, Unlimited Controllers	354130 Build 1.40.000.92	968/FSP 1910.01/21	<i>Valid</i>
T9083D	IEC 61131 Workbench, Hard Drive, 1 User, Unlimited Controllers	354130 Build 1.40.000.92	968/FSP 1910.01/21	<i>Valid</i>
T9084U	IEC61131 Workbench, USB, 5 Users, Unlimited Controllers	354130 Build 1.40.000.92	968/FSP 1910.01/21	<i>Valid</i>
T9087	IEC 61131 Workbench 2	N/A Build 2.1.2195	968/FSP 1910.01/21	<i>Valid</i>
T9090	AADvance License, SISW 1.1	1.1 Build 1564	968/FSP 1910.01/21 968/FSP 1953.01/21	<i>Valid</i>
	AADvance License, SISW 1.2	1.2 Build 347	968/FSP 1910.03/22 968/FSP 1953.02/22	<i>Valid</i>
	AADvance License, SISW 1.02.04	1.02.04	968/FSP 1953.03/22	<i>Valid</i>

Safety Manual / User documentation

Document No.	Description	Report-No.:	Certification Status
ICSTT-RM446	Safety Manual Revision Q	968/FSP 1910.02.21	<i>Valid</i>
ICSTT-RM449	T9000 Series PFH & PFD Revision H	968/FSP 1910.02.21	<i>Valid</i>

The content of this revision list has been agreed between manufacturer and certification body.

Revision:

Date	Rev.	Description / Changes	Author
2019-07-11	1.0	Initial re-release based on Report-No.: 968/FSP 1910.00/19	Bu/A-FS
2021-02-22	2.0	Initial re-release based on Re.0port-No.: 968/FSP 1910.01/21	Bu/A-FS&CS
2021-09-28	3.0	Updated based on Report-No.: 968/FSP 1910.02.21	Bu/A-FS&CS
2022-02-25	4.0	Updated to include T9090 SISW 1.2, based on Report-No.: 968/FSP 1910.03.22	Bu/A-FS&CS
2022-11-07	5.0	Updated to include T9090 SISW 1.02.04, based on Report-No.: 968/FSP 1953.03.22	Bu/A-FS&CS

AADvance V1.40 System

Safety related modules / components

Type Designation	Description	HW / SW Revision		Report-No.:	Certification Status
T9100	Processor Base	D2, E2, F2, G2		968/FSP 1910.00/19	<i>Valid</i>
T9110	Processor Module	H18, H19, I18, I19, J20, K21	See Note 1	968/FSP 1910.00/19	<i>Valid</i>
		K22	354170 Build 1.040.5	968/FSP 1910.01/21	<i>Valid</i>
T9110 ControlFLASH	Firmware for the Processor Module	354400 V1.40 (Build 1.040.5)		968/FSP 1910.01/21	<i>Valid</i>
T9110 Recovery ControlFLASH	Recovery Firmware for the Processor Module	354720 V1.001.103 - (Build 0103)		968/FSP 1910.00/19	<i>Valid</i>
T9300	I/O Base Unit	B, C, D		968/FSP 1910.00/19	<i>Valid</i>
T9401	Digital Input Module, 24Vdc, 8 Channel, Isolated	H15 I15	354080 Build 158 354250 Build 174 354270 Build 180 390450 Build 152	968/FSP 1910.00/19	<i>Valid</i>
		H16 I16	354080 Build 158 354250 Build 175 354270 Build 180 390450 Build 152	968/FSP 1910.00/19	<i>Valid</i>
T9402	Digital Input Module, 24Vdc, 16 Channel, Isolated	D15 F15	354080 Build 158 354250 Build 174 354270 Build 180 390450 Build 152	968/FSP 1910.00/19	<i>Valid</i>
		D16 F16	354080 Build 158 354250 Build 175 354270 Build 180 390450 Build 152	968/FSP 1910.00/19	<i>Valid</i>

Type Designation	Description	HW / SW Revision		Report-No.:	Certification Status
T9431	Analogue Input Module, 8 Channel, Isolated	H15 I15	354080 Build 158 354250 Build 174 354270 Build 180 390450 Build 152	968/FSP 1910.00/19	<i>Valid</i>
		H16 I16	354080 Build 158 354250 Build 175 354270 Build 180 390450 Build 152	968/FSP 1910.00/19	<i>Valid</i>
T9432	Analogue Input Module, 16 Channel, Isolated	D15 F15	354080 Build 158 354250 Build 174 354270 Build 180 390450 Build 152	968/FSP 1910.00/19	<i>Valid</i>
		D16 F16	354080 Build 158 354250 Build 175 354270 Build 180 390450 Build 152	968/FSP 1910.00/19	<i>Valid</i>
T9451	Digital Output Module, 24Vdc, 8 Channel, Commoned	H13 J13 K13	354270 Build 162 390470 Build 158	968/FSP 1910.00/19	<i>Valid</i>
T9481	Analogue Output Module, 3 Channel	J14 K14	354270 Build 160 354440 Build 150 354450 Build 150 390490 Build 151	968/FSP 1910.00/19	<i>Valid</i>
T9482	Analogue Output Module, 8 Channel	O14 P14	354270 Build 160 354440 Build 150 354450 Build 150 390490 Build 151	968/FSP 1910.00/19	<i>Valid</i>
T9801	Digital Input TA, 16 Channel, Simplex, Commoned	F G		968/FSP 1910.00/19	<i>Valid</i>

Type Designation	Description	HW / SW Revision	Report-No.:	Certification Status
T9802	Digital Input TA, 16 Channel, Dual, Isolated	E F	968/FSP 1910.00/19	<i>Valid</i>
T9803	Digital Input TA, 16 Channel, TMR, Isolated	F G	968/FSP 1910.00/19	<i>Valid</i>
T9831	Analogue Input TA, 16 Channel, Simplex, Commoned	F G	968/FSP 1910.00/19	<i>Valid</i>
T9832	Analogue Input TA, 16 Channel, Dual, Isolated	E F	968/FSP 1910.00/19	<i>Valid</i>
T9833	Analogue Input TA, 16 Channel, TMR, Isolated	F G	968/FSP 1910.00/19	<i>Valid</i>
T9851	Digital Output TA, 8 Channel, Simplex, Commoned	E F	968/FSP 1910.00/19	<i>Valid</i>
T9852	Digital Output TA, 8 Channel, Dual, Commoned	E F	968/FSP 1910.00/19	<i>Valid</i>
T9881	Analogue Output TA, 8 Ch, Simplex, Commoned	B C	968/FSP 1910.00/19	<i>Valid</i>
T9882	Analogue Output TA, 8 Ch, Dual	B C	968/FSP 1910.00/19	<i>Valid</i>

Note 1: The firmware must be upgraded using the ControlFLASH files listed in the table.

Software tools

Type Designation	Description	SW Revision	Report-No.:	Certification Status
T9030	OPC Portal	354190 Build 1.40.000.92	968/FSP 1910.01/21	<i>Valid</i>
T9082U	IEC 61131 Workbench, USB, 1 User, 1 Controller	354130 Build 1.40.000.92	968/FSP 1910.01/21	<i>Valid</i>
T9082D	IEC 61131 Workbench, Hard Drive, 1 User, 1 Controller	354130 Build 1.40.000.92	968/FSP 1910.01/21	<i>Valid</i>
T9083U	IEC 61131 Workbench, USB, 1 User, Unlimited Controllers	354130 Build 1.40.000.92	968/FSP 1910.01/21	<i>Valid</i>
T9083D	IEC 61131 Workbench, Hard Drive, 1 User, Unlimited Controllers	354130 Build 1.40.000.92	968/FSP 1910.01/21	<i>Valid</i>
T9084U	IEC61131 Workbench, USB, 5 Users, Unlimited Controllers	354130 Build 1.40.000.92	968/FSP 1910.01/21	<i>Valid</i>
T9087	IEC 61131 Workbench 2	N/A Build 2.1.2195	968/FSP 1910.01/21	<i>Valid</i>
T9090	AADvance License, SISW 1.1	1.1 Build 1564	968/FSP 1910.01/21 968/FSP 1953.01/21	<i>Valid</i>

Safety Manual / User documentation

Document No.	Description	Report-No.:	Certification Status
ICSTT-RM446	Safety Manual Revision P	968/FSP 1910.01/21	<i>Valid</i>
ICSTT-RM449	T9000 Series PFH & PFD Revision G	968/FSP 1910.01/21	<i>Valid</i>

The content of this revision list has been agreed between manufacturer and certification body.

Revision:

Date	Rev.	Description / Changes	Author
2019-07-11	1.0	Initial re-release based on Report-No.: 968/FSP1910.00/19	Bu/A-FS
2021-02-22	2.0	Initial re-release based on Report-No.: 968/FSP 1910.01/21	Bu/A-FS&CS

AADvance V1.34 System

Safety related modules / components

Type Designation	Description	HW / SW Revision		Report-No.:	Certification Status
T9100	Processor Base	D2 E2 F2 G2		968/FSP 1910.00/19	<i>Valid</i>
T9110	Processor Module	H18, H19, I18, I19, J20	See Note 1	968/FSP 1910.00/19	<i>Valid</i>
		K21	354170 Build 325 354210 Build 160 354280 Build 157 390370 Build 325 354260 Build 152 354700 Build 103	968/FSP 1910.00/19	<i>Valid</i>
T9110 ControlFLASH	Firmware for the Processor Module	354400 v1.034 - (Build 0325) 354170 Build 325 354260 Build 152 354280 Build 157 390370 Build 325		968/FSP 1910.00/19	<i>Valid</i>
T9110 Recovery ControlFLASH	Recovery Firmware for the Processor Module	354720 v1.001.103 - (Build 0103) 354700 Build 103 354260 Build 152 354280 Build 157 390370 Build 325 354210 Build 160		968/FSP 1910.00/19	<i>Valid</i>
T9300	I/O Base Unit	B C D		968/FSP 1910.00/19	<i>Valid</i>

Type Designation	Description	HW / SW Revision		Report-No.:	Certification Status
T9401	Digital Input Module, 24Vdc, 8 Channel, Isolated	H15 I15	354080 Build 158 354250 Build 174 354270 Build 180 390450 Build 152	968/FSP 1910.00/19	<i>Valid</i>
		H16 I16	354080 Build 158 354250 Build 175 354270 Build 180 390450 Build 152	968/FSP 1910.00/19	<i>Valid</i>
T9402	Digital Input Module, 24Vdc, 16 Channel, Isolated	D15 F15	354080 Build 158 354250 Build 174 354270 Build 180 390450 Build 152	968/FSP 1910.00/19	<i>Valid</i>
		D16 F16	354080 Build 158 354250 Build 175 354270 Build 180 390450 Build 152	968/FSP 1910.00/19	<i>Valid</i>
T9431	Analogue Input Module, 8 Channel, Isolated	H15 I15	354080 Build 158 354250 Build 174 354270 Build 180 390450 Build 152	968/FSP 1910.00/19	<i>Valid</i>
		H16 I16	354080 Build 158 354250 Build 175 354270 Build 180 390450 Build 152	968/FSP 1910.00/19	<i>Valid</i>

Type Designation	Description	HW / SW Revision		Report-No.:	Certification Status
T9432	Analogue Input Module, 16 Channel, Isolated	D15	354080 Build 158	968/FSP 1910.00/19	<i>Valid</i>
		F15	354250 Build 174 354270 Build 180 390450 Build 152		
		D16	354080 Build 158	968/FSP 1910.00/19	<i>Valid</i>
		F16	354250 Build 175 354270 Build 180 390450 Build 152		
T9451	Digital Output Module, 24Vdc, 8 Channel, Commoned	H13	354270 Build 162	968/FSP 1910.00/19	<i>Valid</i>
		J13	390470 Build 158		
		K13			
T9481	Analogue Output Module, 3 Channel	J14	354270 Build 160	968/FSP 1910.00/19	<i>Valid</i>
		K14	354440 Build 150 354450 Build 150 390490 Build 151		
T9482	Analogue Output Module, 8 Channel	O14	354270 Build 160	968/FSP 1910.00/19	<i>Valid</i>
		P14	354440 Build 150 354450 Build 150 390490 Build 151		
T9801	Digital Input TA, 16 Channel, Simplex, Commoned	F		968/FSP 1910.00/19	<i>Valid</i>
		G			
T9802	Digital Input TA, 16 Channel, Dual, Isolated	E		968/FSP 1910.00/19	<i>Valid</i>
		F			
T9803	Digital Input TA, 16 Channel, TMR, Isolated	F		968/FSP 1910.00/19	<i>Valid</i>
		G			
T9831	Analogue Input TA, 16 Channel, Simplex, Commoned	F		968/FSP 1910.00/19	<i>Valid</i>
		G			
T9832	Analogue Input TA, 16 Channel, Dual, Isolated	E		968/FSP 1910.00/19	<i>Valid</i>
		F			

Type Designation	Description	HW / SW Revision	Report-No.:	Certification Status
T9833	Analogue Input TA, 16 Channel, TMR, Isolated	F G	968/FSP 1910.00/19	<i>Valid</i>
T9851	Digital Output TA, 8 Channel, Simplex, Commoned	E F	968/FSP 1910.00/19	<i>Valid</i>
T9852	Digital Output TA, 8 Channel, Dual, Commoned	E F	968/FSP 1910.00/19	<i>Valid</i>
T9881	Analogue Output TA, 8 Ch, Simplex, Commoned	B C	968/FSP 1910.00/19	<i>Valid</i>
T9882	Analogue Output TA, 8 Ch, Dual	B C	968/FSP 1910.00/19	<i>Valid</i>



Note 1: The firmware must be upgraded using the ControlFLASH files listed in the table.

Software tools

Type Designation	Description	SW Revision	Report-No.:	Certification Status
T9030	OPC Portal	354190 Build 1.20.508	968/FSP 1910.00/19	<i>Valid</i>
T9082U	IEC 61131 Workbench, USB, 1 User, 1 Controller	354130 Build 1.20.520	968/FSP 1910.00/19	<i>Valid</i>
T9082D	IEC 61131 Workbench, Hard Drive, 1 User, 1 Controller	354130 Build 1.20.520	968/FSP 1910.00/19	<i>Valid</i>
T9083U	IEC 61131 Workbench, USB, 1 User, Unlimited Controllers	354130 Build 1.20.520	968/FSP 1910.00/19	<i>Valid</i>
T9083D	IEC 61131 Workbench, Hard Drive, 1 User, Unlimited Controllers	354130 Build 1.20.520	968/FSP 1910.00/19	<i>Valid</i>
T9084U	IEC61131 Workbench, USB, 5 Users, Unlimited Controllers	354130 Build 1.20.520	968/FSP 1910.00/19	<i>Valid</i>
T9087	IEC 61131 Workbench 2	N/A Build 2.00.752	968/FSP 1058.01/15	<i>Valid</i>

Safety Manual / User documentation

Document No.	Description	Report-No.:	Certification Status
ICSTT-RM446	Safety Manual Revision N	968/FSP 1910.00/19	<i>Valid</i>
ICSTT-RM449	T9000 Series PFH & PFD Revision F	968/FSP 1910.00/19	<i>Valid</i>

	Released by Manufacturer:	Released by Assessor:	Released by Certifier:
Signatures:	<i>Mizera</i>	 <i>Busa</i>	 <i>Steffens</i>
Date:	2019-07-11	2019-07-11	2019-07-11

Revision:

Date	Rev.	Description / Changes	Author
2019-07-11	1.0	Initial re-release based on Report-No.: 968/FSP1910.00/19	Bu/A-FS