



**CONFIGURATION SUMMARY**

**ARGUS APPLICATION 9V966-A01A  
PREPARED FOR  
BURLINGTON NORTHERN SANTA FE**

**NOVEMBER 2008 (REVISED APRIL 2014)**

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VERSION A.1**

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## DOCUMENT HISTORY

Version	Release Date	Sections Changed	Details of Change
A	Nov 2008	- - - - -	Initial Release
A.1	Apr 2014	ALL	Convert to Siemens Format

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## 1.0 INTRODUCTION

This document supports installation and maintenance of Argus units configured with the 9V966-A01A user program stored in flash memory. This document:

- Explains LED indications
- Lists setup steps unique to 9V966-A01A
- Lists all messages generated by 9V966-A01A
- Describes User Test Mode supported by 9V966-A01A

For further information on Argus, including configuration of executive software, refer to the ARGUS EVENT RECORDER, A80311– Installation & Operation Manual (Siemens document No. SIG-00-06-05).

### NOTE

### NOTE

Siemens Industry, Inc. is not responsible for any misunderstanding or misinterpretation of the federal regulations, or for any changes to the regulations occurring after the release of this document.

## 2.0 USER MENU ITEMS – SITE SETUP

The following table lists configuration settings that are unique to 9V966-A01A. Each row presents an entry in the site setup sequence. The first column shows the text that appears on the Argus screen or in the terminal display. The two middle columns give the options or define the range of values that may be entered. The rightmost column summarizes conditions that determine if that row's step will appear, for example: the 'LOW BATTERY ALARM?' entry will appear only if the entry for 'BATTERY INPUTS?' is > 0.

Question	Minimum	Maximum	Condition For Menu Display
MDK INPUTS?	0	2	
ISLK INPUTS?	0	2	
XRK INPUT?	YES	NO	
GUK INPUT?	YES	NO	

Question	Minimum	Maximum	Condition For Menu Display
GDK INPUT?	YES	NO	
POK INPUT?	YES	NO	
LOD INPUTS?	0	2	
FR INPUTS?	0	2	
BATTERY INPUTS?	0	3	
iLOD's?	0	2	
LIGHT OUT ALARM?	YES	NO	
FLASH RATE ALARM?	YES	NO	
LOW BATTERY ALARM?	YES	NO	BATTERY INPUTS? > 0
LOW BATTERY PERCENTAGE?	1	99	LOW BATTERY ALARM? = YES
HIGH BATTERY ALARM?	YES	NO	BATTERY INPUTS? > 0
HIGH BATTERY PERCENTAGE?	101	199	HIGH BATTERY ALARM? = YES
POWER OFF ALARM?	YES	NO	POK INPUT? = YES
XING ACTIVE TOO LONG ALARM?	YES	NO	
GATE NOT UP ALARM?	YES	NO	GUK INPUT? = YES
GATE NOT PROVEN DOWN ALARM?	YES	NO	GDK INPUT? = YES
ANALYZER FAILURE ALARM?	YES	NO	iLOD's? > 0
RECORD ACTIVATION TIME?	YES	NO	ISLK INPUTS? > 0



### 3.0 DIGITAL INPUT STANDARD CONFIGURATION

The following table defines the inputs for the 12 digital inputs at the bottom of the Argus front panel for 9V966-A01A. Once inputs are assigned based on the site setup answers, they cannot be changed.

Chan	Name	Energized	De-energized
01	1MDK	UP	DOWN
02	2MDK	UP	DOWN
03	1ISLK	UP	DOWN
04	2ISLK	UP	DOWN
05	XRK	UP	DOWN
06	GUK	UP	NOT UP
07	GDK	DOWN	NOT DOWN
08	POK	ON	OFF
09	LOD1	ON	OFF
10	LOD2	ON	OFF
11	FR1	ON	OFF
12	FR2	ON	OFF

### 4.0 INDICATOR LED CONFIGURATION

This table and the following material on LED conventions define operation of the red Indicator LEDs for 9V966-A01A.

LED	Alarm Numbers	Designator
I01	7, 8, 9, 10, 11, 12	BATTERY
I02	1	POWER OFF
I03	5	GATE NOT U
I04	6	GATE NOT D
I05	13	LIGHTOUT
I06	14, 15	FLASH RATE
I07	4	XING RELAY
I08	2	ECH COMM

#### Standard LED Conventions

1. LEDs are ON (RED) when no alarm has been generated or an alarm has been cleared using the CLEAR ALARM key.
2. LEDs FLASH FAST when an alarm condition exists.
3. LEDs FLASH SLOW if an alarm has occurred but is currently cleared.
4. The CLEAR ALARM key will not clear out alarms if they currently exist.

## 5.0 BATTERY INPUT CONFIGURATION

The following table shows the 9V966-A01A default names and resolutions for the three battery inputs along the left side of the Argus front panel.

CHAN	Name	Resolution
01	XB	1 VDC
02	MB	1 VDC
03	OB	1 VDC

### NOTE

### NOTE

Standard Digital and Battery Input names must be used to enable corresponding application alarms. Inputs are automatically detected by the application program.

## 6.0 APPLICATION ALARMS

The 9V966-A01A application generates these alarms when enabled during site setup.

LED	Name	Description	Tested	Alarm #	Menu Condition
I01	LOW XB	THE XB BATTERY BANK DROPS BELOW THE USER DEFINED "LOW BATTERY PERCENTAGE" FOR 5 MINUTES	ALWAYS	7	BATTERY INPUTS>0 & LOW BATTERY ALARM = YES
I01	LOW MB	THE MB BATTERY BANK DROPS BELOW THE USER DEFINED "LOW BATTERY PERCENTAGE" FOR 5 MINUTES	ALWAYS	8	BATTERY INPUTS>1 & LOW BATTERY ALARM = YES
I01	LOW OB	THE OB BATTERY BANK DROPS BELOW THE USER DEFINED "LOW BATTERY PERCENTAGE" FOR 5 MINUTES	ALWAYS	9	BATTERY INPUTS>2 & LOW BATTERY ALARM = YES
I02	AC OFF TOO LONG	POK IS OFF FOR 30 MINUTES	ALWAYS	1	POK INPUT=YES & POWER OFF ALARM=YES

LED	Name	Description	Tested	Alarm #	Menu Condition
103	GATE(S) NOT PROVEN UP	XRK UP >= 40 SECONDS AND GUK NOT UP	TRAIN MOVE	5	GATE NOT UP ALARM = YES & GUK INPUT = YES
104	GATE(S) NOT PROVEN DOWN	GDK NOT DOWN 30 SECONDS AFTER XRK DOWN	TRAIN MOVE	6	GATE NOT PROVEN DOWN ALARM = YES & GDK INPUT = YES
105	LIGHT OUT (iLODs)	iLODs REPORT LAMPS OFF FOR AT LEAST 30 SECONDS AFTER XRK DOWN	TRAIN MOVE	13	iLOD's? > 0 & LIGHT OUT ALARM? = YES
105	LIGHT OUT (NO iLODs)	ANY LOD INPUT IS OFF FOR AT LEAST 30 SECONDS AFTER XRK DOWN	TRAIN MOVE	13	iLOD's? = 0 FR INPUTS?> 0 LIGHT OUT ALARM? = YES
106	FLASH RATE TOO SLOW (iLOD)	iLODs REPORT A FLASH RATE < 36 FPM FOR AT LEAST 30 SECONDS AFTER XRK DOWN	TRAIN MOVE	14	iLOD's? > 0 & FLASH RATE ALARM? = YES
106	FLASH RATE TOO FAST (iLOD)	iLODs REPORT A FLASH RATE > 64 FPM FOR AT LEAST 30 SECONDS AFTER XRK DOWN	TRAIN MOVE	15	iLOD's? > 0 & FLASH RATE ALARM? = YES
106	FLASH RATE TOO SLOW (NO iLODs)	FR1 AND/OR FR2 ARE TOGGLING < ~35 FPM FOR AT LEAST 30 SECONDS AFTER XRK DOWN	TRAIN MOVE	14	iLOD's? = 0 FR INPUTS?> 0 FLASH RATE ALARM? = YES
106	FLASH RATE TOO FAST (NO iLODs)	FR1 AND/OR FR2 ARE TOGGLING > ~65 fpm FOR AT LEAST 30 SECONDS AFTER XRK DOWN	TRAIN MOVE	15	iLOD's? = 0 FR INPUTS?> 0 FLASH RATE ALARM? = YES
107	CROSSING ACTIVATE D TOO LONG	CROSSING HAS BEEN ACTIVE FOR AT LEAST 30 MINUTES	TRAIN MOVE	4	XING ACTIVE TOO LONG ALARM? = YES
108	ANALYZER FAILURE	ARGUS HAS LOST ECHELON COMMUNICATION WITH AT LEAST ONE iLOD FOR > 30 SECONDS	ALWAYS	2	ANALYZER FAILURE ALARM? = YES & iLOD's? > 0

## 7.0 APPLICATION ALARM CLEARS

These messages report cleared alarms.

LED	Name	Description	Tested	Alarm #	Menu Condition
I01	XB NORMAL	THE XB BATTERY BANK IS ABOVE THE USER DEFINED "LOW BATTERY PERCENTAGE" FOR 5 MINUTES	ALWAYS	107	BATTERY INPUTS>0 & LOW BATTERY ALARM = YES
I01	MB NORMAL	THE MB BATTERY BANK IS ABOVE THE USER DEFINED "LOW BATTERY PERCENTAGE" FOR 5 MINUTES	ALWAYS	108	BATTERY INPUTS>1 & LOW BATTERY ALARM = YES
I01	OB NORMAL	THE OB BATTERY BANK IS ABOVE THE USER DEFINED "LOW BATTERY PERCENTAGE" FOR 5 MINUTES	ALWAYS	109	BATTERY INPUTS>2 & LOW BATTERY ALARM = YES
I02	AC POWER BACK ON	POK IS ON FOR 5 MINUTES	ALWAYS	101	POK INPUT=YES & POWER OFF ALARM=YES
I03	GATE(S) NOT PROVEN UP CLEAR	XRK UP FOR > 40 SECONDS AND GUK UP	TRAIN MOVE	105	GATE NOT UP ALARM = YES & GUK INPUT = YES
I04	GATE(S) NOT PROVEN DOWN CLEAR	GDK IS DOWN AT ANY TIME WHILE XRK DOWN	TRAIN MOVE	106	GATE NOT PROVEN DOWN ALARM = YES & GDK INPUT = YES
I05	LIGHT OUT CLEAR (iLODs)	TRAIN MOVE LASTING > 30 SECONDS OCCURS AND NO LIGHT OUT ALARM IS GENERATED	TRAIN MOVE	113	iLOD's? > 0 & LIGHT OUT ALARM? = YES
I05	LIGHT OUT CLEAR (NO iLODs)	TRAIN MOVE LASTING > 30 SECONDS OCCURS AND NO LIGHT OUT ALARM IS GENERATED	TRAIN MOVE	113	iLOD's? = 0 FR INPUTS?> 0 LIGHT OUT ALARM? = YES
I06	FLASH SLOW CLEAR (iLOD)	TRAIN MOVE LASTING > 30 SECONDS OCCURS AND NO FLASH RATE TOO SLOW ALARM IS GENERATED	TRAIN MOVE	114	iLOD's? > 0 & FLASH RATE ALARM? = YES

LED	Name	Description	Tested	Alarm #	Menu Condition
106	FLASH FAST CLEAR (iLOD)	TRAIN MOVE LASTING > 30 SECONDS OCCURS AND NO FLASH RATE TOO FAST ALARM IS GENERATED	TRAIN MOVE	115	iLOD's? > 0 & FLASH RATE ALARM? = YES
106	FLASH SLOW CLEAR (NO iLODs)	TRAIN MOVE LASTING > 30 SECONDS OCCURS AND NO FLASH RATE TOO SLOW ALARM IS GENERATED	TRAIN MOVE	114	iLOD's? = 0 FR INPUTS?> 0 FLASH RATE ALARM? = YES
106	FLASH FAST CLEAR (NO iLODs)	TRAIN MOVE LASTING > 30 SECONDS OCCURS AND NO FLASH RATE TOO FAST ALARM IS GENERATED	TRAIN MOVE	115	iLOD's? = 0 FR INPUTS?> 0 FLASH RATE ALARM? = YES
107	CROSSING ACTIVATED TOO LONG	CROSSING INACTIVE	TRAIN MOVE	104	XING ACTIVE TOO LONG ALARM? = YES
108	ANALYZER NORMAL	ARGUS HAS RE-ESTABLISHED ECHELON COMMUNICATION WITH ALL iLODs	ALWAYS	102	ANALYZER FAILURE ALARM? = YES & iLOD's? > 0

## 8.0 APPLICATION INFORMATIONAL MESSAGES

Name	Description	Tested	Menu Condition
XRK DROPPED	XRK HAS DROPPED	TRAIN MOVE	XRK INPUT? = YES
1ISLK DROPPED	TRACK 1 ISLAND IS DOWN	TRAIN MOVE	ISLK INPUTS? > 0
2ISLK DROPPED	TRACK 2 ISLAND IS DOWN	TRAIN MOVE	ISLK INPUTS? > 1
SKIP ALARMS: XX	REMAINING TIME FOR USER TEST MODE	ALWAYS	
USER TEST MODE ENABLED	USER TEST MODE ENABLED	ALWAYS	
USER TEST MODE DISABLED	USER TEST MODE DISABLED	ALWAYS	
XRK->1ISLK ACTIVATION TIME: XX SECONDS	TIME BETWEEN XRK & 1ISLK DROP	TRAIN MOVE	XRK INPUT=YES & ISLK INPUTS>0 & RECORD ACTIVATION TIME=YES
XRK->2ISLK ACTIVATION TIME: XX SECONDS	TIME BETWEEN XRK & 2ISLK DROP	TRAIN MOVE	XRK INPUT=YES & ISLK INPUTS>0 & RECORD ACTIVATION TIME=YES
LAMPS STARTED FLASHING	LAMPS STARTED FLASHING	ALWAYS	iLOD's? > 0
LAMPS STOPPED FLASHING	LAMPS STOPPED FLASHING	ALWAYS	iLOD's? > 0

## 9.0 USER TEST MODE

- User test mode will disable all alarms.
- To enter user test mode press the USER TEST key on the front of the Argus.
  - ◆ **SKIP ALARMS: XX** will display on screen and
  - ◆ **USER TEST MODE ENABLED** will be recorded in the log.
- User test mode will timeout after 60 minutes.
- User test mode can also be disabled by pressing the USER TEST key again. **USER TEST MODE DISABLED** will be recorded in the log.

**NOTES**

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