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**READYKEY**

## READYKEY FOR WINDOWS INPUT AND OUTPUT PROGRAMMING EXAMPLES

**Article ID: RKKB0009**

**Revision Date: 11 July 97**

The information in this article applies to:

- \* Readykey for Windows v 3.2 or higher
- \* K2100/K1100 v 3.15 or higher
- \* For more information on K2015A programming refer to the Alarm Module Help Screens

### K2015A Alarm Event Manager Programming

**Alarm Modules : DIVISION ONE**

Report...

Last edited on : 06/04/97

Site : SITE ONE

Door Controller : CONTROLLER 1

Channel Number : 4

Alarm Module : ALARM EVENT MANAGER

Description :

Type : K2015A ALARM EVENT MANAGER

Alarm Modules on Controller

Controller	Channel	Name
1	4	ALARM EVENT MANAGER

Inputs... Outputs...

Add Change Delete Clear Close Help

This Record Can Be Modified



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**Alarm Input : DIVISION ONE**

Report...

Last edited on : 06/05/97      Controller Number : 1 : CONTROLLER 1  
 Name :  
 Channel Number : 4

Input Name : **DISABLE INPUT EXAMPLE**      Alarm Input Number : 1

Description :

Time Profile : NONE

Graphic File :  **Browse...**

Re-arm Count : 0

Output 1 Attached : ☐    Output 2 Attached : ☐    Output 3 Attached : ☐    Output 4 Attached : ☐

**Alarm Options**

Disable Input : ☒    Input Normally Open : ☐  
 Normal Input : ☐    4 State : ☐  
 24 Hour Input : ☐    Acknowledge Required : ☐  
 Relay Follows Input : ☒

**Change    Close    Help**

This Record Can Be Modified

INPUT NAME	NAME DISPLAYED ON THE TRANSACTION
TIME PROFILE	NONE      **NOTE 1**
RE-ARM COUNT	0      **NOTE 1**
DISABLE INPUT	SELECT THIS TYPE
NORMALLY OPEN INPUT	DO NOT SELECT THIS TYPE      **NOTE 2**
RELAY FOLLOWS INPUT	SELECT THIS TYPE

NOTE 1 : This input type is not monitored for alarm. Therefore, a time profile assigned to this input will not function just as the re-arm count will not function. These are options for alarm input types not environmental inputs. If time profiles are needed, program them in the output programming.

NOTE 2 : Normally Open Input is only selected when the input is monitored for 4-State. When it is not monitored as 4-State, use the Dip Switches on the K2015A to define the normal state of the input.



INPUT NAME	NAME DISPLAYED ON THE TRANSACTION
TIME PROFILE	TIME THE INPUT WILL BE DISARMED
RE-ARM COUNT	NUMBER OF TIMES THE INPUT WILL RESPOND BEFORE BEING BYPASSED **NOTE 3**
NORMAL INPUT	SELECT THIS TYPE
NORMALLY OPEN INPUT	DO NOT SELECT THIS TYPE **NOTE 2**
RELAY FOLLOWS INPUT	DO NOT SELECT THIS TYPE **NOTE 4**

NOTE 3 : Only enter a re-arm count when there is a time profile assigned to the input. The counter is set at the end of the time profile and re-set at the start of the next time profile. If no time profile is selected, after the number entered, the input will be *“Zone Restored & Disarmed”* and will not respond again.

NOTE 4 : Relay Follows Input will only be selected when the input type is Disable Input. Any other use of this type will cause the relay and outputs to fail to respond over time.



**Alarm Input : DIVISION ONE**

Report...

Last edited on : 06/05/97      Controller Number : 1 : CONTROLLER 1  
 Name :  
 Channel Number : 4

Input Name : **24 HOUR INPUT EXAMPLE**      Alarm Input Number : 1

Description :

Time Profile : NONE

Graphic File :  **Browse...**

Re-arm Count : 0

Output 1 Attached : ☐    Output 2 Attached : ☐    Output 3 Attached : ☐    Output 4 Attached : ☐

**Alarm Options**

Disable Input : ☐      Input Normally Open : ☐  
 Normal Input : ☐      4 State : ☐  
 24 Hour Input : ☒      Acknowledge Required : ☐  
 Relay Follows Input : ☐

**Change    Close    Help**

This Record Can Be Modified

INPUT NAME	NAME DISPLAYED ON THE TRANSACTION
24 HOUR INPUT	SELECT THIS TYPE
INPUT NORMALLY OPEN	DO NOT SELECT THIS TYPE      **NOTE 2**
RELAY FOLLOWS INPUT	DO NOT SELECT THIS TYPE      **NOTE 4**

NOTE 2 : Normally Open Input is only selected when the input is monitored for 4-State. When it is not monitored as 4-State, use the Dip Switches on the K2015A to define the normal state of the input.

NOTE 4 : Relay Follows Input will only be selected when the input type is Disable Input. Any other use of this type will cause the relay and outputs to fail to respond over time.



## 4 STATE INPUT

**Alarm Input : DIVISION ONE** [X]

Report...

Last edited on : 06/05/97    Controller Number : 1 : CONTROLLER 1  
Name :  
Channel Number : 4

Input Name : **NORMAL 4 STATE INPUT EXAMPLE**    Alarm Input Number : 1

Description :

Time Profile : NONE

Graphic File :  **Browse...**

Re-arm Count : 0

Output 1 Attached : ☐    Output 2 Attached : ☐    Output 3 Attached : ☐    Output 4 Attached : ☐

**Alarm Options**

Disable Input :	<input type="radio"/>	Input Normally Open :	<input checked="" type="checkbox"/>
Normal Input :	<input checked="" type="radio"/>	4 State :	<input checked="" type="checkbox"/>
24 Hour Input :	<input type="radio"/>	Acknowledge Required :	<input type="checkbox"/>
		Relay Follows Input :	<input type="checkbox"/>

**Change**    **Close**    **Help**

This Record Can Be Modified

**Alarm Input : DIVISION ONE** [X]

Report...

Last edited on : 06/05/97    Controller Number : 1 : CONTROLLER 1  
Name :  
Channel Number : 4

Input Name : **24 HOUR 4 STATE INPUT EXAMPLE**    Alarm Input Number : 1

Description :

Time Profile : NONE

Graphic File :  **Browse...**

Re-arm Count : 0

Output 1 Attached : ☐    Output 2 Attached : ☐    Output 3 Attached : ☐    Output 4 Attached : ☐

**Alarm Options**

Disable Input :	<input type="radio"/>	Input Normally Open :	<input checked="" type="checkbox"/>
Normal Input :	<input type="radio"/>	4 State :	<input checked="" type="checkbox"/>
24 Hour Input :	<input checked="" type="radio"/>	Acknowledge Required :	<input type="checkbox"/>
		Relay Follows Input :	<input type="checkbox"/>

**Change**    **Close**    **Help**

This Record Can Be Modified



INPUT NAME	NAME DISPLAYED ON THE TRANSACTION
TIME PROFILE	TIME THE INPUT IS DISARMED OR NONE FOR 24 HOUR INPUTS
RE-ARM COUNT	NUMBER OF TRIPS BEFORE THE INPUT IS BYPASSED OR 0 FOR 24 HOUR INPUTS
INPUT TYPE	NORMAL INPUT OR 24 HOUR INPUT
INPUT NORMALLY OPEN	SELECT IF INPUT IS A N/O DEVICE
4 STATE INPUT	SELECT THIS TYPE
RELAY FOLLOWS INPUT	DO NOT SELECT THIS TYPE **NOTE 4**

NOTE 4 : Relay Follows Input will only be selected when the input type is Disable Input. Any other use of this type will cause the relay and outputs to fail to respond over time.



# Readykey for Windows K2015A Output Programming Examples

K2015A OUTPUT

## ***ALARM ZONE ACTIVATE***

OUTPUT NAME	NAME DISPLAYED ON THE TRANSACTION
TIME PROFILE	TIME THE OUTPUT WILL RESPOND
EVENT CODE 1	ALARM ZONE ACTIVATE
ALARM INPUT (ANY OR 1)	INPUT NAME
RELAY ACTION TYPE	MOMENTARY **NOTE 1**
PULSE PERIOD	1 SECOND -99 SECONDS
WAIT TIME	0 **NOTE 2**

NOTE 1 : Select Momentary to have the output operate for a programmed period of time. If Latched is selected the relay will fire for 2-5 seconds only.

NOTE 2 : Do not program a wait time. If a wait time is entered, the relay will not activate due to the fact that the event happened and was sent immediately. At the end of the wait time the condition would not be active.



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Alarm Output : DIVISION ONE	
Report...	
Last edited on :	06/05/97
Alarm Output Number :	1
Controller Number :	1 : CONTROLLER 1
Channel Number :	4
Output Name :	DISABLE INPUT ALARM ZONE ACTIVATE
Description :	
Time Profile :	8 TO 1200 RELAY TIME PROFILE
Event code 1 :	ALARM ZONE ACTIVATE
Alarm Input	DISABLE INPUT EXAMPLE
Event code 2 :	NOT AFFECTED
No Source	
Event code 3 :	NOT AFFECTED
No Source	
Event code 4 :	NOT AFFECTED
No Source	
Relay Action Type :	LATCHED
Pulse Period :	10 Secs
Wait Time :	0 Secs.
Maximum Activation Time :	0 Mins
This Record Can Be Modified	

OUTPUT NAME	NAME DISPLAYED ON THE TRANSACTION
TIME PROFILE	TIME THE OUTPUT WILL RESPOND
EVENT CODE 1	ALARM ZONE ACTIVATE
ALARM INPUT (ANY OR 1)	ALARM INPUT NAME
RELAY ACTION TYPE	LATCHED **NOTE 3**
WAIT TIME	TIME OUTPUT WILL WAIT BEFORE ACTIVATING
MAX ACTIVATION TIME	0 **NOTE 4**

NOTE 3 : By selecting Latched, the relay will follow the state of the input.

NOTE 4 : A Max Activation Time of 0 allows the relay to follow the state of the input. If a number greater than 0 is entered, the relay will activate for this period of time.





***DOOR LEFT OPEN EXAMPLE***

Alarm Output : DIVISION ONE	
Report...	
Last edited on :	06/05/97
Alarm Output Number :	3
Controller Number :	1 : CONTROLLER 1
Channel Number :	4
Output Name :	DOOR LEFT OPEN EXAMPLE
Description :	
Time Profile :	NONE.
Event code 1 :	DOOR LEFT OPEN
Door Name	DOOR 1
Event code 2 :	NOT AFFECTED
No Source	
Event code 3 :	NOT AFFECTED
No Source	
Event code 4 :	NOT AFFECTED
No Source	
Relay Action Type :	LATCHED
Pulse Period :	10 Secs
Wait Time :	0 Secs.
Maximum Activation Time :	0 Mins
This Record Can Be Modified	

OUTPUT NAME	NAME DISPLAYED ON THE TRANSACTION
TIME PROFILE	TIME THE RELAY WILL RESPOND
EVENT CODE 1	DOOR LEFT OPEN
SOURCE (ANY OR 1)	DOOR NAME
RELAY ACTION TYPE	LATCHED **NOTE 3**
WAIT TIME	0-99 SECONDS
MAX ACTIVATION TIME	0 **NOTE 4**

NOTE 3 : By selecting Latched, the relay will follow the state of the input.

NOTE 4 : A Max Activation Time of 0 allows the relay to follow the state of the input. If a number greater than 0 is entered, the relay will activate for this period of time.



***DOOR OPENED***

Alarm Output : DIVISION ONE	
Report...	
Last edited on :	06/05/97
Alarm Output Number :	4
Controller Number :	1 : CONTROLLER 1
Channel Number :	4
Output Name :	DOOR OPENED EXAMPLE
Description :	
Time Profile :	NONE.
Event code 1 :	DOOR OPENED
Door Name	DOOR 1
Event code 2 :	NOT AFFECTED
No Source	
Event code 3 :	NOT AFFECTED
No Source	
Event code 4 :	NOT AFFECTED
No Source	
Relay Action Type :	LATCHED
Pulse Period :	10 Secs
Wait Time :	0 Secs.
Maximum Activation Time :	0 Mins
This Record Can Be Modified	

OUTPUT NAME	NAME DISPLAYED ON THE TRANSACTION
TIME PROFILE	TIME THE OUTPUT WILL RESPOND
EVENT CODE 1	DOOR OPENED **NOTE 5**
SOURCE (1 ONLY)	DOOR NAME **NOTE 6**
RELAY ACTION TYPE	LATCHED **NOTE 3**
WAIT TIME	0-99 SECONDS
MAX ACTIVATION TIME	0 **NOTE 4**

NOTE 5 : Door Opened is always monitored even when the door is unlocked by time profile or manually unlocked.

NOTE 6 : Select 1 door per event code. If you need all four doors for the same relay, program event codes 1-4 as Door Opened with 1 door for each event.



***DOOR ALARM EXAMPLE***

Alarm Output : DIVISION ONE	
Report...	
Last edited on :	06/05/97
Alarm Output Number :	5
Controller Number :	1 : CONTROLLER 1
Channel Number :	4
Output Name :	DOOR ALARM EXAMPLE
Description :	
Time Profile :	NONE.
Event code 1 :	DOOR ALARM
Door Name	DOOR 1
Event code 2 :	NOT AFFECTED
No Source	
Event code 3 :	NOT AFFECTED
No Source	
Event code 4 :	NOT AFFECTED
No Source	
Relay Action Type :	MOMENTARY
Pulse Period :	10 Secs
Wait Time :	0 Secs.
Maximum Activation Time :	10 Mins
This Record Can Be Modified	

OUTPUT NAME	NAME DISPLAYED ON THE TRANSACTION
TIME PROFILE	TIME THE OUTPUT WILL RESPOND
EVENT CODE 1	DOOR ALARM
SOURCE (ANY OR 1)	DOOR NAME
RELAY ACTION TYPE	MOMENTARY **NOTE 7**
PULSE PERIOD	1-99 SECONDS
WAIT TIME	0 **NOTE 2**

NOTE 7 : Relay will be momentary when momentary or latched is selected.

NOTE 2 : Do not program a wait time. If a wait time is entered, the relay will not activate due to the fact that the event happened and was sent immediately. At the end of the wait time the condition would not be active.



Alarm Output : DIVISION ONE	
Report...	
Last edited on :	06/05/97
Alarm Output Number :	6
Controller Number :	1 : CONTROLLER 1
Channel Number :	4
Output Name :	TIME PROFILE EXAMPLE
Description :	USED TO ACTIVATE RELAY AT A SET TIME
Time Profile :	NONE.
Event code 1 :	TIME PROFILE
Time Profile	8 TO 1200 RELAY TIME PROFILE
Event code 2 :	NOT AFFECTED
No Source	
Event code 3 :	NOT AFFECTED
No Source	
Event code 4 :	NOT AFFECTED
No Source	
Relay Action Type :	LATCHED
Pulse Period :	10 Secs
Wait Time :	0 Secs.
Maximum Activation Time :	0 Mins
This Record Can Be Modified	

OUTPUT NAME	NAME DISPLAYED ON THE TRANSACTION
TIME PROFILE	TIME THE OUTPUT WILL RESPOND **NOTE 8**
EVENT CODE 1	TIME PROFILE
TIME PROFILE	TIME PROFILE NAME
RELAY ACTION TYPE	LATCHED
WAIT TIME	0
MAX ACTIVATION TIME	0 **NOTE 9**

NOTE 8 : The time profile here takes precedence over the time profile entered as the event. If the relay is not responding then the time profile event will not take place.

NOTE 9: Relay will activate for the period of the time profile when the entry here is 0. Any entry greater than 0 will result in the relay activating for the amount of this entry and not the Time profile.



Alarm Output : DIVISION ONE	
Report...	
Last edited on :	06/05/97
Alarm Output Number :	7
Controller Number :	1 : CONTROLLER 1
Channel Number :	4
Output Name :	ACCESS DENIED EXAMPLE
Description :	NO ACCESS: LEVEL, TIME, UNKNOWN ID, PASSBACK
Time Profile :	NONE.
Event code 1 :	ACCESS DENIED
Door Name	DOOR 1
Event code 2 :	NOT AFFECTED
No Source	
Event code 3 :	NOT AFFECTED
No Source	
Event code 4 :	NOT AFFECTED
No Source	
Relay Action Type :	MOMENTARY
Pulse Period :	10 Secs
Wait Time :	0 Secs.
Maximum Activation Time :	10 Mins
This Record Can Be Modified	

OUTPUT NAME	NAME DISPLAYED ON THE TRANSACTION
TIME PROFILE	TIME THE OUTPUT WILL RESPOND
EVENT CODE 1	ACCESS DENIED
SOURCE (ANY OR 1)	DOOR NAME
RELAY ACTION TYPE	MOMENTARY
PULSE PERIOD	1-99 SECONDS
WAIT TIME	0 **NOTE 10**

NOTE 10: Wait Time must be 0. If amount greater than this is entered the relay will not fire because the event is momentary and has already past by the end of the wait time.



***ACCESS AUTHORIZED EXAMPLE***

Alarm Output : DIVISION ONE	
Report...	
Last edited on :	06/05/97
Alarm Output Number :	8
Controller Number :	1 : CONTROLLER 1
Channel Number :	4
Output Name :	ACCESS AUTHORIZED EXAMPLE
Description :	
Time Profile :	NONE.
Event code 1 :	ACCESS AUTHORIZED
Door Name	ANY
Event code 2 :	NOT AFFECTED
No Source	
Event code 3 :	NOT AFFECTED
No Source	
Event code 4 :	NOT AFFECTED
No Source	
Relay Action Type :	MOMENTARY
Pulse Period :	10 Secs
Wait Time :	0 Secs.
Maximum Activation Time :	10 Mins
This Record Can Be Modified	

OUTPUT NAME	NAME DISPLAYED ON THE TRANSACTION
TIME PROFILE	TIME THE RELAY WILL RESPOND
EVENT CODE 1	ACCESS AUTHORIZED
SOURCE (ANY OR 1)	DOOR NAME
RELAY ACTION TYPE	MOMENTARY
PULSE PERIOD	1-99 SECONDS
WAIT TIME	0 <span style="float: right;">**NOTE 10**</span>

NOTE 10: Wait Time must be 0. If amount greater than this is entered the relay will not fire because the event is momentary and has already past by the end of the wait time.



# READYKEY FOR WINDOWS

## K2100 OUTPUT PROGRAMMING

**Controllers : DIVISION ONE** [X]

Report...

Last Edited on : 05/22/97

Site :

Door Controller Name :

Door Controller Type :

Description :

Address :

Enable Controller: ☒

**All Controllers**

Number	Name
1	CONTROLLER 1
2	CONTROLLER 2

**Door Controller Information**

Lock Sharing (1-4) ☒ Lock Sharing (2-3) : ☐ Passback On Exit : ☐

Passback Doors (1-4) ☐ Passback Doors (2-3) : ☐ Passback Timeout :

Manual alarm accept : ☐

**Outputs**

This Record Can Be Modified



Relay Output : DIVISION ONE	
Report...	
Last edited on :	06/05/97      Controller Number : Name : 1 : CONTROLLER 1
Relay Number	1
Relay Name	DOOR ALARM / LEFT OPEN EXAMPLE
Description :	FOR BURG PANEL
Time Profile :	NONE.
Event code 1 :	DOOR ALARM/TAMPER
Door Name	DOOR 2
Event code 2 :	DOOR LEFT OPEN
Door Name	DOOR 2
Event code 3 :	NOT AFFECTED
No Source	
Event code 4 :	NOT AFFECTED
No Source	
Relay Action Type :	LATCHED
Pulse Period :	10 Secs      Wait Time : 0 Secs.
Maximum Activation Time :	0 Mins
This Record Can Be Modified	

OUTPUT NAME	NAME DISPLAYED ON THE TRANSACTION
TIME PROFILE	TIME THE OUTPUT WILL RESPOND
EVENT CODE 1	DOOR ALARM
SOURCE (1 ONLY)	DOOR NAME
EVENT CODE 2	DOOR LEFT OPEN
SOURCE (1 ONLY)	DOOR NAME
RELAY ACTION TYPE	LATCHED
WAIT TIME	0      **NOTE 11**
MAX ACTIVATION TIME	0      **NOTE 12**

NOTE 11 : Wait Time must be set for 0 so that the relay will respond under the Door Alarm condition.

NOTE 12 : Max Activation Time must be set for 0 so that the relay will remain activated as long as the door is held open. Relay will reset when door is closed.





Relay Output : DIVISION ONE	
Report...	
Last edited on :	06/05/97      Controller Number : Name : 1 : CONTROLLER 1
Relay Number	2
Relay Name	DOOR ALARM / LEFT OPEN EXAMPLE 2
Description :	FOR EXTERNAL SOUNDERS AT THE DOORS
Time Profile :	NONE.
Event code 1 :	DOOR ALARM/TAMPER
Door Name	DOOR 2
Event code 2 :	DOOR LEFT OPEN
Door Name	DOOR 2
Event code 3 :	NOT AFFECTED
No Source	
Event code 4 :	NOT AFFECTED
No Source	
Relay Action Type :	MOMENTARY
Pulse Period :	30 Secs      Wait Time : 0 Secs.
Maximum Activation Time :	10 Mins
This Record Can Be Modified	

OUTPUT NAME	NAME DISPLAYED ON THE TRANSACTION
TIME PROFILE	TIME RELAY WILL RESPOND
EVENT CODE 1	DOOR ALARM
SOURCE (1 ONLY)	DOOR NAME
EVENT CODE 2	DOOR LEFT OPEN
SOURCE (1 ONLY)	DOOR NAME
RELAY ACTION TYPE	MOMENTARY
PULSE PERIOD	1-99 SECONDS      **NOTE 13**
WAIT TIME	0      **NOTE 11**

NOTE 11 : The Wait Time must be set for 0 so that the relay will respond under the Door Alarm condition.

NOTE 13 : The time programmed in the Pulse Period is the time that the relay will output regardless whether it is a Door Alarm or a Door Left Open. Due to this, a relay programmed following this example should not be used as the activation device for a burglary panel.



## ***ALARM CONDITIONS***

DOOR ALARM
DOOR TAMPER
DOOR CONTROLLER TAMPER
ALARM MODULE TAMPER
DOOR CONTROLLER OVERRIDE ALARM
DOOR ALARM/TAMPER
ALARM ZONE ACTIVATE
ALARM ZONE TAMPER ALARM
ALARM ZONE TROUBLE ALARM
PIN READER DURESS

## ***NON-ALARM CONDITIONS***

ACCESS AUTHORIZED
ACCESS DENIED
DOOR OPENED
DOOR LEFT OPEN
TIME PROFILE
AUTO ZONE ENABLE
MANUAL ZONE ENABLE
ALARM ZONE ACTIVATE (DISABLED INPUT)

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