

AMERICAN ACCESS SYSTEMS, INC.



ADVANTAGE DKW

300MHz Wireless Keypad

INSTALLATION AND PROGRAMMING INSTRUCTIONS

**MODEL
19-100W**

PLEASE READ BEFORE USING THIS EQUIPMENT

Technical Support: 303-799-9757 Monday thru Friday 8:00 a.m. to 4:30 P.M MST



AAS 2-Year Limited Warranty

What item(s) this warranty applies to:

American Access Systems "DKW" access controls.

What is covered:

Any defect in materials or workmanship.

For how long:

Two years from date of purchase.

What we will do:

If your AAS product is defective and returned within 2 years of the date of purchase, we will repair it or, at our option, replace it at no charge to you. If we repair your AAS product, we may use new or reconditioned parts. If we choose to replace your AAS product, we may replace it with a new or reconditioned one of the same or similar design. The repair or replacement will be warranted for (a) 90 days or (b) the remainder of the original two year warranty period, whichever is longer.

Limitations:

Implied warranties, including those of fitness for a particular purpose and merchant ability (an unwritten warranty that the product is fit for ordinary use), are limited to two years from date of purchase. We will not pay for loss of time, inconvenience, loss of use of your AAS product, service calls, or property damage caused by your AAS product or its failure to work, or any other incidental or consequential damages. Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above exclusions or limitations may not apply to you.

What we ask you to do:

To get warranty service for your AAS product, you must provide proof of the date of purchase. Contact the original dealer or installer of the product and return your AAS product along with the receipt to them. If you have problems locating the dealer or installer contact American Access Systems at (303) 799-9757 and we will direct you to an authorized dealer or distributor of American Access Systems products. If you ship your AAS product, you must prepay all shipping costs. We suggest that you retain your original packing material in the event you need to ship your AAS product. On return, include your name, address, phone number, proof of date of purchase, and a brief description of the operating problem.

What this warranty does not cover:

This warranty does not cover defects resulting from accidents, damage while in transit, alterations, unauthorized repair, failure to follow instructions, misuse, fire, flood, or acts of God. Nor do we warrant your AAS product to be compatible with any particular external device or peripheral. If your warranty has expired on your AAS product or if your product is NOT covered contact your dealer or installer for advice on whether we will repair your AAS product and other repair information, including estimated repair costs and other charges. We, at our option, may replace rather than repair your AAS product with a new or similar design if the damage to the unit is severe or extensive.

This warranty is the only one we give on this product, and it sets forth all our responsibilities regarding your AAS product. There are no other express warranties.

State Law rights:

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

AMERICAN ACCESS SYSTEMS, INC.
7079 SOUTH JORDAN ROAD / UNIT 6
CENTENNIAL, CO. 80112
PH: (303) 799-9757

SERIAL# _____

PARTS CHECKLIST

Enclosed with this box you should have the following items.

Qty	Description
1	Control Station
4	1/4 by 1/2 carriage bolts (Post mount units only)
4	1/4-20 hex nuts (Post mount units only)

If any of the above items are missing from this box, contact American Access Systems

TOOLS YOU WILL NEED

Wire nuts or appropriate connectors

Wire strippers

Wire cutters

3/8" drive ratchet with 6" extension and 7/16" socket
(Post mount units only)

Digital or Analog multi-meter

BEFORE PROCEEDING

To take full advantage of the 24 month limited warranty, you must be registered with American Access Systems, Inc. Please read the enclosed warranty statement, (pg 2), fill out the warranty registration card provided, and send it to :

**American Access Systems, Inc.
Warranty Registration
7079 South Jordan Road / Unit 6
Centennial, Co. 80112**

INTRODUCTION

Your new DKW unit is a high quality, commercial grade, programmable wireless digital key control station. The unit is designed to operate at extremely low current and therefore is perfect for solar applications or conditions which require very little current draw. The unit incorporates a 300 MHz radio receiver for gate operation. The DKW is housed in a 16 gauge steel enclosure with a powder coat finish for durability and also includes a stainless steel faceplate with metal keypad. Please be sure to read and understand all instructions before proceeding with the hookup and programming instructions.

STEP 1-MOUNTING THE UNIT

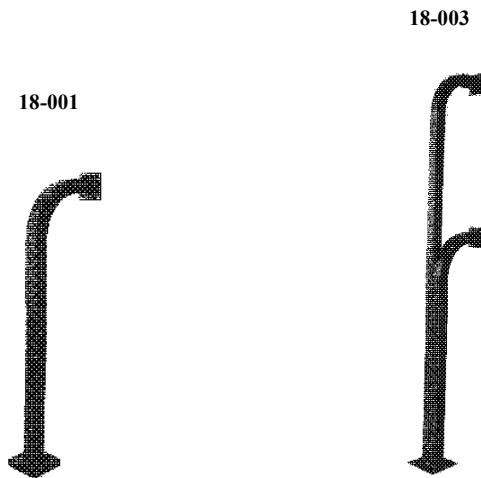
Page 3 tells you what tools and instruments you will need to install your unit and presents a parts check list. Make sure to have all the tools listed. Upon opening the box, check off the items enclosed with the unit. If any items are missing from your unit, contact American Access Systems immediately.

Mounting the unit to your own pedestal

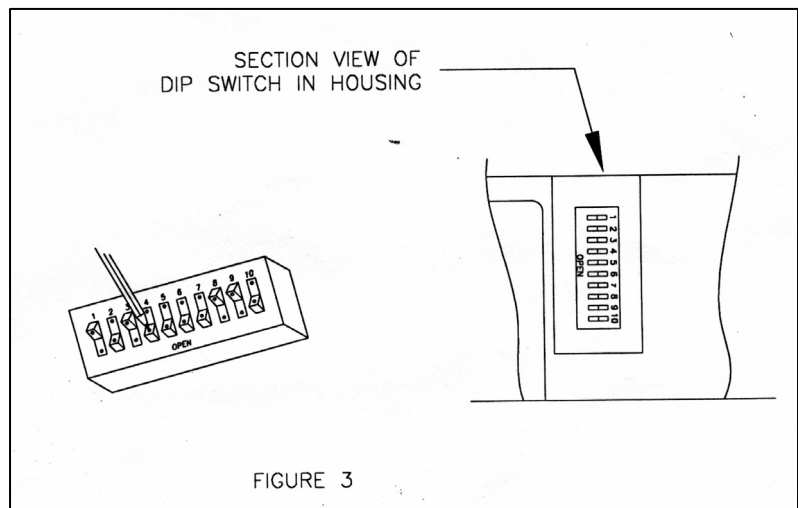
A optional square mounting flange can be purchased from American Access Systems. The square mounting flange may be welded to your pedestal and the flange bolt pattern will align with the back of the unit. Place the unit up to the flange and insert the carriage bolts from the back side. Secure the unit to the flange by tightening down the hex nuts with a 7/16" socket.

Mounting the unit to an AAS gooseneck (18-001) or double height (18-003)pedestal

Locate the four carriage bolts and four hex nuts found inside the unit box. Place the unit up to the pedestal flange and insert the four carriage bolts from the backside. Secure the unit to the pedestal using the four hex nuts and a 7/16" socket.



Radio Receiver Circuit Board Dip Switch



Set both code switches to the code of your choice, being sure both are set the same since a different setting of just one switch will prevent operation. The digital code is determined by the position of the 10 small switches numbered 1 through 10 located in the receiver and the transmitter. Any combination of "on" or "off" positions can be selected by using a pencil or a pen. (Note: The switches are in the "on" position when the switch is depressed toward the number.) See Figure #3 above.

THE MASTER CODE AND ACCESS CODES

Depending on which model you have, your unit may be programmed with 50 multiple (4 digit) **ACCESS CODES**. The **MASTER CODE** is a 4 digit programmable code used for accessing the program mode. **Note: The model number of the unit is located on the inside face of the unit.**

SETTING OR RESETTING THE MASTER CODE

To set or reset the master code back to the **factory default of 1 2 5 1** should you ever loose or forget you master code. To do this follow these steps: (SEE PAGE 7 FOR LOCATION DIAGRAM)

- (1). Disconnect power from the unit by pulling the power harness away from the board.
- (2). Press several keys on keypad to drain circuit board of power.
- (3). Reconnect power while holding down the PROGRAM/RESET button.
- (4). A single keybeep will be heard from the unit indicating that the master has been reset

GOODBEEPS AND ERRORBEEPS

A standard beep will be heard each time a key is pressed. A **“GOODBEEP”** is represented by a series of quick beeps in succession. An **“ERRORBEEP”** is represented by a single long beep.

THE IDLE MODE

The idle mode is the normal mode of operation. When in this mode the unit sits and waits for data from the keypad. If a key is pressed from the keypad, you will have approximately 5 seconds between each keypress before the unit resets.

THE PROGRAM MODE

The program mode is the mode of operation in which you will enter/change your access code. Upon entry, several GOODBEEPS will heard. Several GOODBEEPS will also be heard when you exit the program mode unless a keypress timeout occurs in which case you will receive an ERRORBEEP. The program mode is accessed by entering the **“MASTER CODE”** from the keypad. If the master code is valid, you will receive 4 GOODBEEPS from the unit. In this mode you will have approximately 30 seconds between keypresses. If this time is exceeded, you will receive an ERRORBEEP and the unit will exit the program mode and return to the idle mode. To exit the program mode at any time, press #.

THE * AND # KEYS

The * and # keys serve specific functions while in the idle or program mode. The * key is always the clear key. You should use this key if you make an entry error. The # key also serves as the clear key in the idle mode. In the program mode however, it serves as the exit key and will at any time when depressed, exit you from the program mode.

PROGRAMMING

A person desiring a access to the program mode will enter the present MASTER CODE. If the master code is valid a GOODBEEP will be heard prompting the person to enter a number corresponding to the SUB-MODE, eg. **(MASTER CODE) then (Number corresponding to Sub-Mode)**. Once in the program mode the individual will have approximately 15 seconds between keypresses or the unit will sound an ERRORBEEP and exit the program mode. **NOTE: An access code log sheet is provided on page 8 which can be photo-copied. A good source for access codes is the phone book or the last 4 digits of social security numbers.**

SUB-MODES

“1”

Sub-Mode 1 (Enter New Access Codes)

To enter new access codes enter the MASTER CODE, followed by 1, then enter each new ACCESS CODE you wish to program into the unit.

(MASTER CODE) then 1 then (ACCESS CODE) then (ACCESS CODE) etc... (# to exit)

Should you make an entry error, simply press the * key and re-enter the correct data. You may continue entering access codes until the memory is full or the # is pressed. You may select any 4 digit access code that is not already in use by the system. The unit will respond with a GOODBEEP with the acceptance of each new access code. If you do not receive a GOODBEEP after the entry of an access code, you must select a new access code as it is already in use by the system. When the memory becomes filled, you will receive a GOODBEEP indicating the acceptance of the last access code entered and then the unit will sound an ERRORBEEP and automatically exit you from the program mode. **NOTE: You will not be able to enter this mode if memory is full and will receive an ERRORBEEP.**

“2”

Sub-Mode 2 (Delete Access Codes)

To delete any access code from memory enter the MASTER CODE, followed by 2, and then each access code to be deleted

(MASTER CODE) then 2 then (CODE TO BE DELETED) then (NEXT CODE TO BE DELETED) etc... (# to Exit)

Should you make an entry error, simply press the * key and re-enter the correct data. You may continue deleting access codes in a successive manner. The unit will respond with a GOODBEEP with the successful deletion of each access code. If you do not receive a GOODBEEP the access code entered could not be found in memory and the unit will wait for you to enter another code to be deleted.

“3”

Sub-Mode 3 (Change Master Code)

To change the master code enter the PRESENT MASTER CODE, followed by 3, and then the NEW MASTER CODE.

(PRESENT MASTER CODE) then 3 then (NEW MASTER CODE)

Should you make an entry error, simply press the * key and re-enter the correct data. You may select any 4 digit code as your new master code that is not already in use by the system. The unit will respond with a GOODBEEP upon acceptance of the new master code and automatically exit from the program mode. If the unit does not respond with a GOODBEEP, you must select a different code as it is already in use by the system.

“4”

Sub-Mode 4 (Set Relay Output Time from 1/2 to 9 seconds) To set the relay output time in seconds enter the PRESENT MASTER CODE, followed by 4, and then the relay output time in seconds. NOTE: “0” = 1/2 seconds.

(PRESENT MASTER CODE) then 4 then (RELAY OUTPUT TIME)

Should you make an entry error, simply press the * key and re-enter the correct data. You may enter any single digit value corresponding from 1/2 to 9 seconds of total length output time. Please note that when you enter “0”, the output time is set to 1/2 seconds.

“0”

Sub-mode 0 (Clear memory) !!!! WARNING ALL ACCESS CODES WILL BE DELETED !!!!

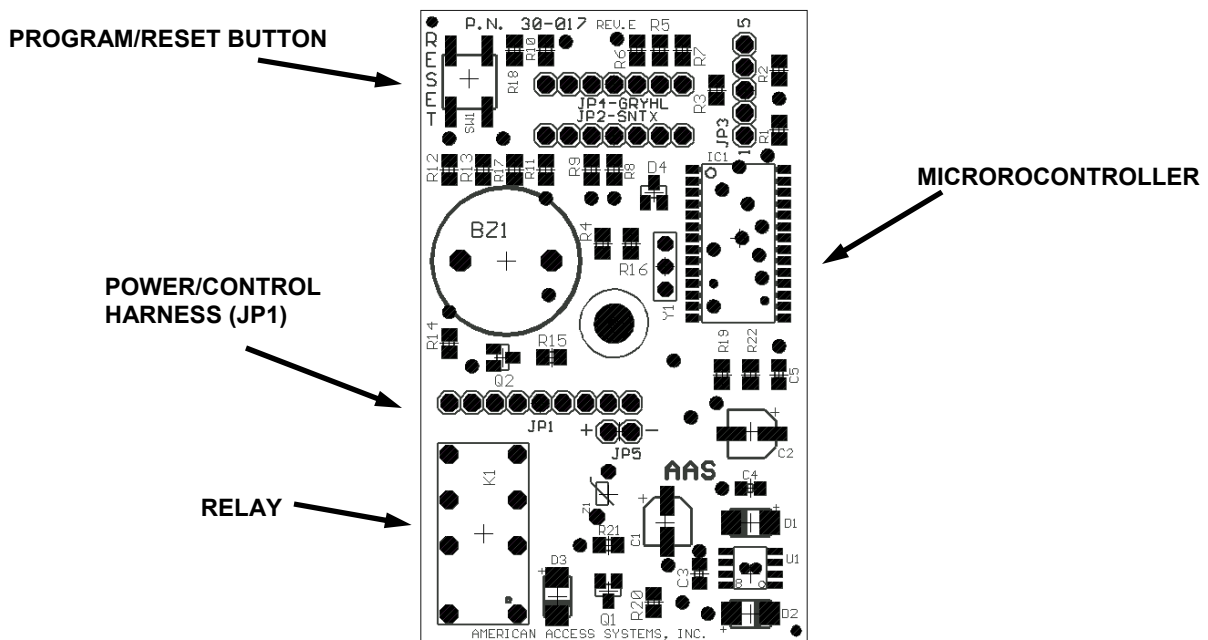
To delete all access codes from memory enter the MASTER CODE, followed by 0, and the re-enter the

MASTER CODE.(MASTER CODE) then 0 then (MASTER CODE)

Should you make an entry error, simply press the * key and re-enter the correct data. If the second entry of the master code is correct there will be a short pause before a GOODBEEP is heard and then the unit will automatically be exited from the program mode. If the second entry of the master code is incorrect, the unit will still respond with a GOODBEEP indicating that it is exiting the program mode however, there will be no pause on the GOODBEEP and the memory will not be erased.

NOTE: It should not generally be necessary to erase all access codes from memory unless codes are forgotten and are occupying necessary memory space. A good log and maintenance of access codes should prevent this from ever needing to be done.

DKW CIRCUIT BOARD DIAGRAM Part # 30-017A-100



Troubleshooting

Problem	Solution
When I enter 1251 on the keypad the gate will not open.	1251 is the Master Code or programming access code. It will not open the gate unless the unit is in sleep mode. Program a gate access code into the unit using Sub-Mode 1 (listed in the programming instructions).
No response from keypad.	Verify 9 VDC battery is good. Press yellow test button on radio receiver board and confirm red LED lights up on radio receiver board. Contact American Access Systems Inc.
How do I enter a Latch code to hold the gate open.	The DKW series keypad does not have the latch code feature.
When I enter a valid gate code the gate does not open.	Press yellow test button on radio circuit board (top board). If it does check programming and verify you are using a valid 4 digit code. Contact American Access Systems.
When I press 1251 on the keypad nothing happens and I hear a endless set of error tones.	Contact American Access Systems Inc.
I want to reset my keypad but when I push the reset button nothing happens.	Consult instructions regarding MASTER and UNIT reset for proper reset sequence.

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