

INSTRUCTION MANUAL

AWM-8DLWL-KIT-E

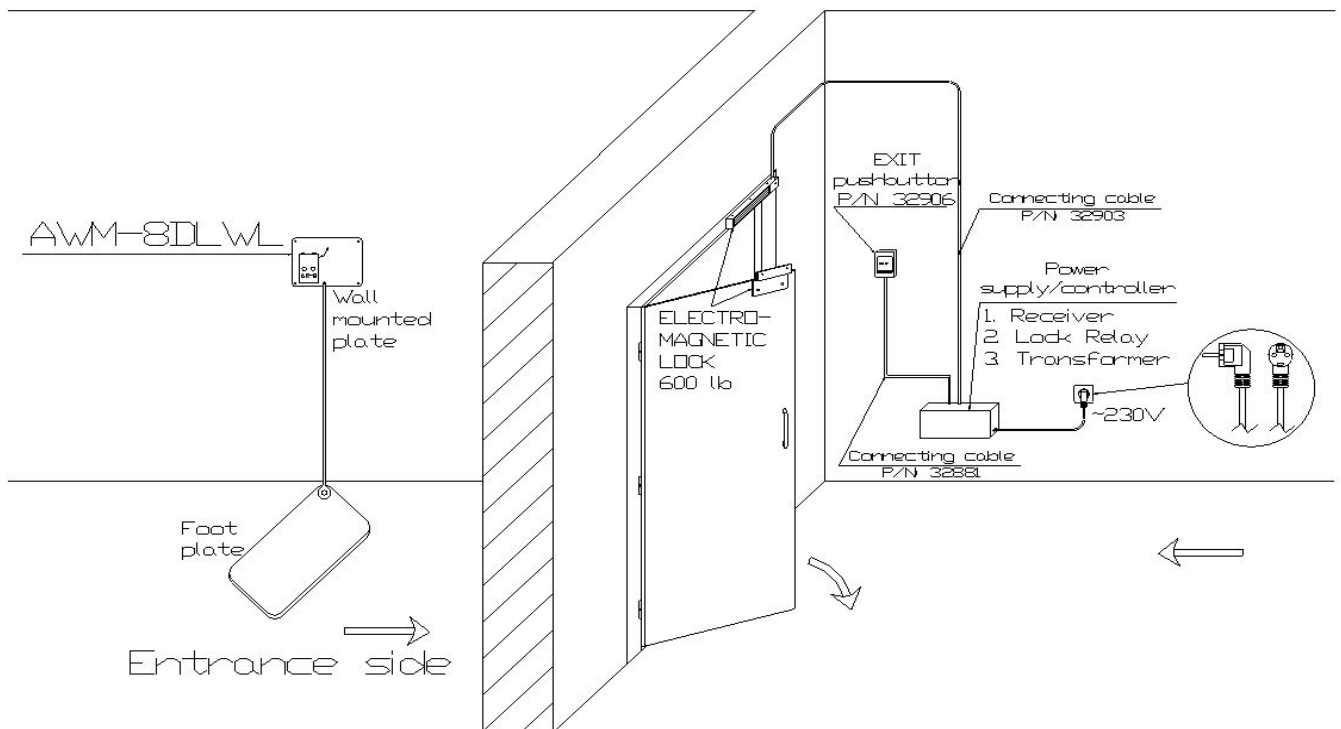
Wall Mounted Wrist Strap and Footwear Tester with a wireless transmitter and a complete hardware set to install a strong (280 KG) Magnetic Door Lock

Product Description:

The Wall Mounted Wrist Strap and Footwear Tester with a wireless transmitter to open a magnetic Door Lock was designed to provide a convenient alternative to assure presence of properly protected personnel in ESD safe areas.

The AR-8DLWL Control Unit has a built-in transmitter which opens a Magnetic Door Lock supplied with the system allowing access to an ESD safe area.

The AR-8DLWL control unit can be pre-programmed to open the door lock in one of three possible modes of operation:



Mode A: when the wrist strap test is within the specifications limits and control unit indicates "pass"

Mode B: when both wrist strap and footwear are within the specifications limits and when for both the control unit indicates "pass".

Mode C: footwear (ESD shoe or heel strap) is within the specifications limits and "pass"

AWM-8DLWL-KIT Features:

- * Three in one instrument to check both wrist straps and footwear and also upon positive testing to allow opening the door to ESD safe area
- * Extremely easy to install and use. Just move your finger from wrist strap button to footwear button to complete the test (without a need to remember to change a position of an additional switch from one measurement to the other (like with the units of other manufacturers)
- * Built with SMT technology for reliability
- * Microprocessor controlled for accuracy
- * Dependable and simple. Can be installed in 2 hours or less.
- * Pass tone is easy to hear.
- * Visual indicators to show pass, low or high fail and low battery condition.
- * High strengths Magnetic Lock (280Kg)
- * Low profile EXIT pushbutton
- * Compact power supply/controller with a power cord ready to be plugged into a standard AC supply outlet without the necessity for a qualified electrician.
- * Supplied with a complete hardware set allowing quick installation using an electric drill a measuring tape and a screwdriver.



AR-8DLWL Wrist and Footwear Tester with built-in wireless transmitter

The complete system includes:

- AWM-8DLWL-E Wrist strap and Footwear Tester with lock activation transmitter
- Wall mounted Exit Pushbutton P/N 32906
- Cable to connect Exit Pushbutton with Power supply/Controller (10ft-3m) P/N 32881
- Magnetic Door Lock (600lb or 280Kg) P/N 32882
- Set of mounting brackets (Z and L) to conveniently mount the magnetic lock P/N 32883
- 12V DC power supply to connect Exit pushbutton to the 230V power outlet P/N 32902
- Cable to connect Magnetic Door Lock with the power supply (20ft-6m) P/N 32903
- Key Chain transmitter (By-pass of the AWM-8DLWL tester if access needed in an emergency) P/N 32925
- Manual and Warranty Card



P/N 32906



P/N 32882 and P/N 32883



P/N 32902



P/N 32907
(connecting cables set)



P/N 32925

Modes of Operation A, B and C.

Pre-Programming the Mode of Operation: (When to de-activate the lock and allow opening the door)

Mode A: Wrist strap only

- If resistance range is correct when pressing **WRIST STRAP** button, the green LED lights-up. At the same time the transmitter sends the signal to deactivate the magnetic door lock for a pre-programmed number of seconds. The sound duration is for 2 seconds to let the operator know that the wrist strap checked "OK" and that the door can be opened. 10 seconds after the door lock closes the system returns to normal waiting state.

Mode B: Wrist strap + Footwear

- If resistance range is correct when pressing **WRIST STRAP** button, the green LED lights-up and the sound is heard for one second. The system is now active for 5 seconds for the operator to test the footwear. During these 5 seconds the operator must press the FOOTWEAR button to complete the test.

If he does, and the footwear resistance is within the correct range, the green LED lights-up and stays lit. At the same time the transmitter sends the signal to de-activate the magnetic lock. The sound duration is for 2 seconds to let the operator know that the wrist strap and the footwear strap (heel strap or toe strap) checked "OK" and the door can be opened. 10 seconds after the door lock closes the system returns to normal waiting state.

Mode C: Footwear only

- If resistance range is correct when pressing **FOOTWEAR** button, the green LED lights-up and stays lit for as long as the test button is pressed. At the same time the transmitter sends the signal to deactivate the magnetic door lock for a pre-programmed number of seconds. The sound duration is for 2 seconds to let the operator know that the footwear checked "OK" and that the door can be opened. 10 seconds after the door lock closes the system returns to normal waiting state.

The Mode of Operation is shown momentarily by corresponding LED, each time when any of the test buttons is pressed.

The corresponding LED (**Red** for wrist strap only, **Green** for both wrist strap and heel strap and **Yellow** for heel strap only) will light-up for 1/2 second. Then the battery check light will blink momentary before the measurement of the wrist/heel straps starts.

If **Red**, "Hi-Fail" LED will light for 0.5sec at the beginning of the test it means that the AR-8 is in **Mode A**

If **Green**, "Pass" LED will light for 0.5sec at the beginning of the test it means that the AR-8 is in **Mode B**
Factory setting is Mode B

If **Yellow**, "Lo-Fail" LED will light for 0.5sec at the beginning of the test it means that the AR-8 is in **Mode C**

Mode of Operation Pre-programming Instructions:

- hold the wrist strap pushbutton for about 30 sec until all 3 LED's light up;
- release the pushbutton within 3 sec. from illumination of the LEDs and press it again;
- When holding down the button, the LED's will illuminate in sequence
- Release the pushbutton while the LED lights up corresponding to a desired MODE of operation

Once again, the importance to release the pushbutton when a particular LED is illuminated.

Hi –Red LED = Mode A

Pass – Green LED = Mode B

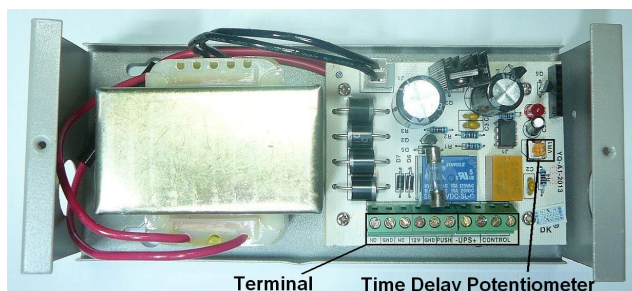
Lo – Yellow LED = Mode C

How to pre-program time period in which the door is open after magnetic lock de-activation

The lock de-activation time is adjustable from 3-30 sec. Factory setting is 10 sec.

Time can be adjusted inside of the Power supply/Controller.

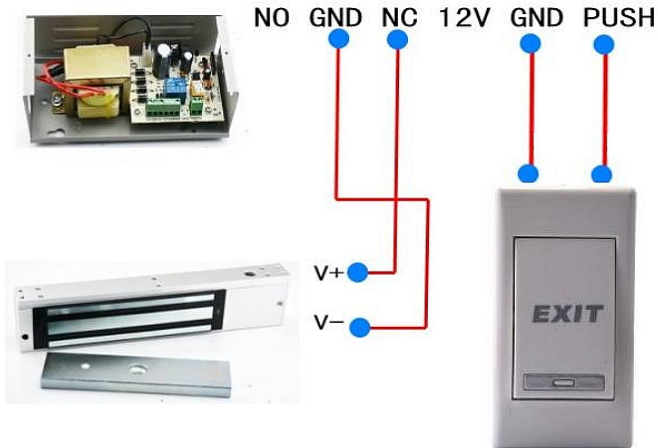
Open the power supply/Controller (remove the 2 screws on the top of the controller and remove the top cover);



- to reduce time to open the lock, turn counterclockwise Time Delay Potentiometer
- to increase time to open the lock, turn Time Delay Potentiometer clockwise

Magnetic Door Lock hardware installation Instructions:

A/ Wiring connections of the subsystems:



B/ How to attach the Magnetic Door Lock Hardware:

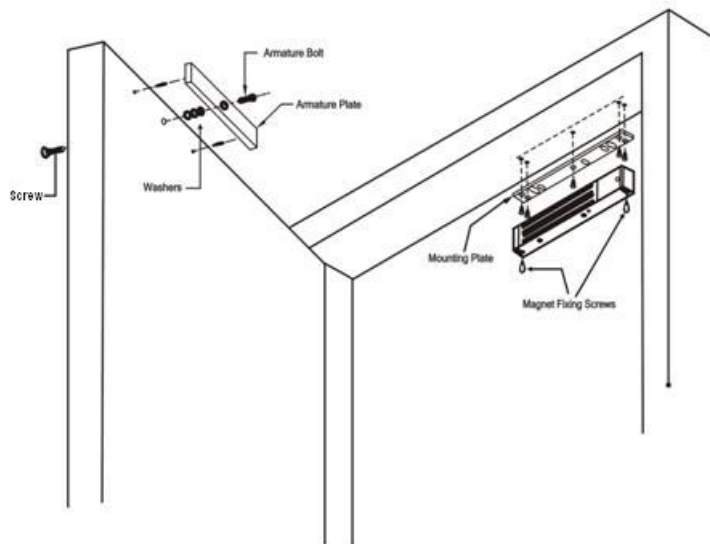
B1: How to attach the electromagnetic element to the door

Important: Please Read Before Installing the Magnetic Lock

- Handle the equipment with care. Damaging the mating surfaces of the magnet or armature plate may reduce locking efficiency.
- The magnet shall be attached strongly to the door frame. The armature plate mounts to the door.
- Use the Template when the door is in its normally closed position.
- Before installing, please add thread locker to all screws. Firmly tighten screws to avoid loosening.

Typical Installation:

****Important:** Fix the armature plate loosely, and attach using the two soft washers for flexibility in order to allow the armature plate automatically adjust to its proper position with the magnet.



MOUNTING INSTRUCTION

STEP 1

- Fold Template along dotted line.
- Place Template against the door and the door frame.
- Drill holes as indicated on the template.

STEP 2

- Mount the armature plate to the door using 1 metal washer sandwiched between the 2 soft washers (the washers are installed between the armature plate and door).

STEP 3

- Install the mounting plate
- Adjust the mounting plate so that the plate and the armature plate form a right angle.
- Using the mounting plate as a template, drill the wire hole.
- Drill holes and install the remaining mounting screws.

STEP 4

- Attach the magnet to the mounting plate with 2 M4 (M6) screws supplied.

STEP 5

- Install electrical wiring

STEP 6

- Test all functions

B2: How to attach the EXIT pushbutton

Drill 2 holes in the wall. Use plastic inserts and the screws to attach the EXIT pushbutton

B3: How to install and connect the Power Supply/Controller

Drill 2 holes in the wall. Use plastic inserts and the screws to attach it to the wall.

Technical specifications:

| | |
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| | AR-8DLWL- E (European Parameters) (Same for both wrist straps and foot wear) |
| Pass Level | 750 kohm-35 Mohm; green light and audible tone |
| Low Fail | < 750 kohm; yellow light and no tone |
| High Fail | > 35 Mohm; red light and no tone |
| Door Lock Power Supply/Controller | Supply: Standard 230V-240V AC, I=0,5A; |
| Electro-Magnet | Strengths 600 pounds (280 KG) |

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