



Intertek FCC ID: WDQ-DW20345
Industry Canada ID: 7794A-DW20345

RECESSED DOOR CONTACT

INSTALL INSTRUCTIONS

The 2GIG-DW20R-345 is the industry's most flexible supervised recessed door/window contact, allowing a multitude of applications while hiding the transmitter within a door or window frame. The 2GIG-DW20R-345 uses a replaceable lithium battery and should last 5 years under normal usage.

Box Contents

- Sensor
- Magnet
- 2 Screws
- 2 Magnet Caps

Programming

The following steps are for programming (learning) the sensor (2GIG-DW20R-345) into the 2GIG Control Panel. Scroll between options using the ← and → arrows. Move to the previous or next prompt by pressing the ↑ and ↓ arrows.

- 1 Select RF sensor # (01 to 48). Assign the DW20R to a new zone.
- 2 Select RF sensor type.
(01) Entry/Exit 1
(02) Entry/Exit 2
(03) Perimeter
(23) no response type
- 3 Select RF equipment type.
(1) contact
- 4 Select RF sensor equipment code. Enter 0863 for the DW20R-345 2GIG Recessed Door Contact.
- 5 Enter RF sensor serial number (7 digits).
Manual Entry: Type in the last 7 digits of the TX ID that is found outside of the box or on the back of the device.
Auto Entry: With the panel in Learn-in mode (press **Shift** then **Learn**) insert the battery into the sensor. The correct TX ID should appear. If inserting the battery does not learn-in the contact to the Control Panel, trip the contact using the supplied magnet. Accept the correct TX ID by pressing **ok**.
Remember to press the ↓ arrow to continue going through the 2GIG system configuration prompts.
- 6 Select RF sensor equipment age (0 to 1).
(0) new (product is new)
(1) existing (product already exists)
- 7 Select RF sensor 1 loop number (1).
(1) loop 1
- 8 Select RF sensor 1 dialer delay.
(0) disabled
- 9 Construct RF sensor voice descriptor. Press **Insert** then press any number between 002 and 255 to add a word. For example, if you wanted to name this DW20R as "back door," press **Insert** then press **020** for **BACK**. Press **Insert** then press **058** for **DOOR**.
- 10 Select RF sensor reports (0 to 1).
(0) disabled
(1) enabled
- 11 Select RF sensor supervised (0 to 1).
(0) disabled (sensor does not report loss of supervision or low battery)
(1) enabled (sensor reports loss of supervision)
- 12 Select RF sensor chime (0 to 13).
(0) disabled (panel will NOT chime when sensor is activated)
(1-13) enabled (selects a voice and/or chime to sound when sensor is activated)
- 13 To program another sensor click **next**.
- 14 To exit programming, click **skip** then **end** and **exit**. Upon exit, the panel takes a several seconds to reboot.

Testing

Before mounting the sensor, verify that the location provides good RF communication to the Control Panel. To verify, do the following:

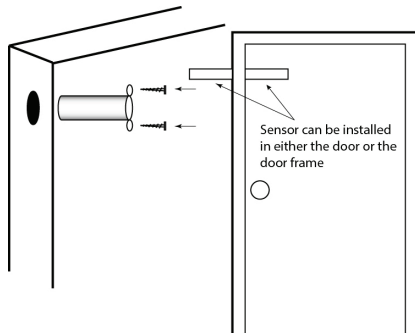
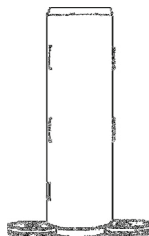
- 1 From the **Installer Toolbox**, select **walk test**.
- 2 Hold the magnet next to the removable cap on the sensor, then pull the magnet away from the sensor (open and close the DW20R). This action causes the Control Panel to chime and display the signal strength of the DW20R Sensor.
- 3 Exit the **Installer Toolbox**.

Installing and Mounting

If possible, locate sensors within 100 ft. (30 m) of the Control Panel. While a transmitter may have a range of 450 ft. (137 m) or more out in the open, the environment at the installation site can have a significant effect on transmitter range.

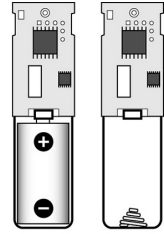
Mounting Tools

- Drill
- 11/16" Drill Bit
- Marker or Pencil



It is important to select the proper placement of the recessed sensor/transmitter and magnet. The DW20R Sensor comes with two different tops, however, the screw mount is recommended for securing the sensor to a door frame. The magnet does not have a second top with a flange to screw it into place so you must be extremely careful to ensure that the magnet is tightly in place upon installation. To mount, do the following:

- 1 Mark the location on the door or window frame for the sensor/transmitter *and* magnet to be installed (use a marker or pencil). Ensure that the two holes you intend to drill are lined up *directly* across from each other (see figure on previous page).
- 2 Using an 11/16" drill bit, slowly drill the first hole for the transmitter. The DW20R Sensor is specifically designed to be slightly larger than an 11/16" hole. Drill carefully by slowly routing the hole little by little to ensure a snug fit. Use the flanged cap with the included screws to mount the transmitter to the door or window frame.
- 3 Drill a matching hole for the magnet, *directly* opposite from the transmitter, also using an 11/16" drill bit.



Inserting and Replacing Batteries

If a supervised sensor battery is low, a low battery notification is indicated on the Control Panel. When the 2GIG system indicates that the sensor has a low battery, replace the battery immediately. Use only the recommended replacement batteries (See Specifications). To install or replace the battery, do the following:

- 1 To remove the sensor top, use a small flat-head screw driver to pry open the top.
- 2 To get to the battery, you must remove the circuit board. Notice that the circuit board fits inside a channel inside of the case. After replacing the battery, reinsert the circuit board to fit snugly inside the channel of the case.
- 3 Observe polarity as shown in the figure! Verify programming and RF communication with the Control Panel.

WARNING: The polarity of the battery must be observed, as shown. Improper handling of lithium batteries may result in heat generation, explosion or fire, resulting in personal injuries. Replace only with the same or equivalent type of battery as recommended by the manufacturer (see Specifications). Batteries must not be recharged, disassembled or disposed of in fire. Disposal of used batteries must be made in accordance with the waste recovery and recycling regulations in your area. **Keep Away From Small Children.** If batteries are swallowed, promptly seek medical attention.

California Only: This Perchlorate warning applies only to Manganese Dioxide Lithium cells sold or distributed ONLY in / California, U.S.A. Perchlorate Material-special handling may apply. See dtsc.ca.gov/hazardouswaste/perchlorate.



Specifications

Wireless Signal Range	450 ft, open air, with 2GIG Wireless Control Panel
Code Outputs	Alarm; Alarm Restore; Supervisory; Low Battery
Transmitter Frequency	345,000 MHz (crystal controlled)
Transmitter Frequency Tolerance	±15kHz
Transmitter Bandwidth	24kHz
Modulation Type	Amplitude Shift Keying-On/Off Keying (ASK-OOK)
Unique ID Codes	Over one million different code combinations
Supervisory Interval	70 minutes
Peak Field Strength	Typical 50,000 uV/m at 3m
External Input Sampling Current	20 uA
External Input	Accepts N/C dry contact devices
Reed Switch Magnetic Sensitivity	10 to 20 amp turns
Reed Sensitivity	0.625 in. (1.59 cm) minimum gap, 0.85 in. (2.16 cm) typical
Magnet Dimensions (HxD)	0.5 x 0.75 in. (1.27 x 1.9 cm) typical
Magnet Type	Rare earth
Sensor Dimensions (HxD)	2.57 x 0.75 in. (6.53 x 1.9 cm)
Weight (including battery and magnet)	1.25 oz. (35.4 g)
Housing Material	ABS plastic
Color	White
Operating Temperature Limits	32° to 120° F (0° to 49° C)
Relative Humidity	5-95% Non-Condensing
Battery (installed with pull tab)	One Panasonic CR2 or equivalent Lithium battery
Included Accessories	Two magnet cap styles (Normal and Screw type) Two Phillip's flat-head screws

FCC and Industry Canada Regulatory information

This device complies with Part 15 of the FCC's Rules. Operation is subject to the following two conditions:

- 1) This device may not cause harmful interference, and
- 2) This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This product complies with FCC radiation exposure limits for an uncontrolled environment. Avoid operating this product at a distance less than 20 cm from the user.

Caution: Any changed or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

LIMITED WARRANTY

This 2GIG Technologies product is warranted against defects in material and workmanship for 2 years. This warranty extends only to wholesale customers who buy direct from 2GIG Technologies or through 2GIG Technologies' normal distribution channels. 2GIG Technologies does not warrant this product to consumers. Consumers should inquire from their selling dealer as to the nature of the dealer's warranty, if any. There are no obligations or liabilities on the part of 2GIG Technologies for consequential damages arising out of or in connection with use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation, or reinstallation. All implied warranties for functionality, are valid only until the warranty expires. This 2GIG Technologies Warranty is in lieu of all other warranties expressed or implied.

For technical support in the USA and Canada:

855-2GIG-TECH (855-244-4832)

For technical support outside of the USA and Canada:

Contact your regional distributor

Visit dealer.2gig.com for a list of distributors in your region.

PN: 1PM-1054-01 Rev. C

2GIG Copyright © 2013. All rights reserved.