
Digital Security Controls

Publications Cover Sheet

Part Number: 29007537R001

Revision: 001

Release Number: 7366

Notes: New- release as R001 for English for marketing field trials

Description: WS4985 FLOOD SENSOR INIS ENG
[WS4985 INIS ENG]

Type: 33-01 8.5 x 11 White (Paper)

Pieces: 0.5(2up)

Printing Instructions: Master Size: 8.5 X5.5
Number of Sheets in Master: 2
2 - Sided Printing
Cover Printing Not Required
Finishing: Not Applicable
Notes: Finished/folded sheet size:
2.75"×4.25" (Fold half once on 8.5" side to 4.25"; Then fold half once on 5.5" side to 2.75"; Ensure the heading and barcode are visible after the final fold.
Note: Booklets more than 10 sheets must be trimmed.

WS4985 One-Way Wireless Flood Detector Installation Instructions

Use this installation sheet along with the associated DSC wireless receiver and control panel installation manual. All instructions specified within those manuals must be observed. The WS4985 is a one-way wireless flood detector intended for use with compatible DSC Security Systems. Multiple WS4985 flood detectors can be enrolled on and supervised by the same security panel up to the maximum number of zones supported by that panel. The flood detector consists of a water sensor and a wireless transmitter that are connected by a 1.82m(6ft) wire cable. This device continuously monitors for unacceptable water levels. If water is detected, the WS4985 wirelessly communicates this alarm condition to the control panel receiver.

Specifications

Operating Humidity (max):	85% R.H., Transmitter Only
Operating Frequency:	433.92 MHz
Operating Temperature:	-10°C to 55°C (14°F to 131°F)
Battery:	CR2 Lithium (Panasonic or Duracell)
Battery Life:	4 years (under typical use)
Compatible Receivers:	RF5132-433, SCW9045/47-433, RFX530X-433, and PC9155

Out of Box:

WS4985 (water sensor and wireless transmitter), Hardware pack, Installation Sheet

Activate, Locate, and Operate

The WS4985 comes with the battery pre-installed. To activate it, hold the WS4985 transmitter firmly in one hand and pull the plastic tab in the direction indicated. Then, select the locations where the transmitter and sensor will be mounted. For detailed operation of your alarm system, refer to the Alarm System user manual.

Enroll, Program, and Place

The one-way wireless flood detector must be enrolled on the security panel before it can transmit system events, supervi-



29007537R001

son signals, or provide the local WS4985 status (e.g., case and wall tamper switch state, battery state, and line cut state). The following outlines the basic steps for programming and enrolling this device on PC9155 series security panels. For additional options or for other systems please refer to the specific receiver or security system installation manuals.

Step 1-Enrolling

The WS4985 flood detector can be enrolled by Quick Enroll or manually by Serial Number Programming. Perform one of the following:

Quick Enroll (1-7)

1. Enter [*]8 [Installer Code] [898] on the system keypad.
2. Place the Flood Detector near the Control panel.
3. Tamper the WS4985 by opening the transmitter housing. Shorting the probes instead can also tamper the device.
4. The Keypad displays "00" in front of the ESN (electronic serial number). Press [*] to confirm it.
5. Select the zone number the device will occupy.
6. Select the zone type the device will follow; 24hr Water is recommended.

NOTE: The electronic serial number is a 6-digit alphanumeric number located on a sticker on the wireless device.

7. Repeat Steps 2 to 6 to enroll additional WS4985.

Serial Number Programming (1-6)

1. Enter [*]8 [Installer Code] on a system keypad to enter installer programming on any system keypad.
2. Enter [804] to enter ESN (electronic serial number) programming.
3. Scroll to the desired subsections [001]-[032] (e.g., [001] zone 1... [032] zone 32).
4. Enter the 6-digit ESN (on the back of the unit) in the next available zone slot and fill the last 2 entries with "00".
5. Repeat Steps 3 and 4 to enroll additional devices.
6. Press [#] to exit the current programming section.

Step 2-Program Zone Definition

1. Enter Section [001] - [002].
2. Assign the corresponding zone with the appropriate zone type ([19] 24hr Water).

NOTE: All wireless devices must be tested for good signal strength from where they are positioned.

Step 3-Device Placement Test

1. Enter Section [904].
2. To start the test, open the wireless transmitter housing (Figure 3) or short the probes of the water sensor with a screwdriver.

NOTE: It is recommended that you Placement test the Flood detector with the water sensor connected.

3. The control panel is programmed to respond with 1 beep if the location is "Good", and 3 beeps if the location is

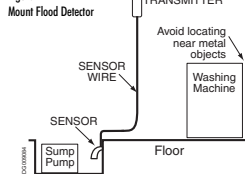
"Bad". If the location is "Bad" change locations and repeat Step 2.

Device Mounting

The proper location for the device is determined the WS4985 can be permanently mounted.

NOTE: The installer is responsible for ensuring that the WS4985 is securely mounted in the intended location.

Figure 2



Water Sensor

The water sensor must be mounted so both probes of the device are touching water when an alarm condition is desired. The water sensor should be mounted at low spots where water will first accumulate (e.g., floor, wall, sump pump, and sump pipe). Secure the water sensor to the mounting surface with the screws provided. There are mounting holes for wall and floor surfaces if you are installing the device in those locations (Figure 2). Connect the sensor wire to the transmitter, see Wireless Transmitter. **NOTE:** Avoid mounting the transmitter portion of the device behind a metal object such as a washing machine, refrigerator, or freezer. RF signals can be affected by metal objects.

Wireless Transmitter

Remove the backplate from the transmitter (Figure 3).

- Using Provided Screws: Mount the back of the transmitter with them.
- Using Adhesive Tape: Ensure you are attaching the wireless transmitter to a painted and primed surface. If surface conditions are unsuitable, secure the transmitter with the mounting screws provided.

NOTE: The adhesive tape is not to be used in EU (European Union) installations.

The external contact terminals of the transmitter are used to connect the sensor wire (Figure 4). Ensure that all wiring is stripped to 6mm (1/4") max. and does not touch any of the components. The sensor wire can be cut to length for the best fit. Wire clamps should be used to keep the wire snug to the wall. Ensure that the sensor wire is laid out in such a way that accidents cannot occur. Connected cables must not

be subject to excessive mechanical strain. Once the WS4985 is installed, test the water sensor to verify it operates in the event of an alarm condition.

Tamper Switch

Out of the box the WS4985 transmitter comes equipped with transmitter case tamper detection. If the transmitter case is removed, the WS4985 will report a zone tamper to the control panel. For added security the WS4985 was designed to provide wall tamper monitoring as well. Simply replace the short rubber actuator (Figure 5) with the longer one that is included. With this option, if the case is opened or if the WS4985 is removed from its location, a tamper will be sent to the control panel. It is strongly recommended that mounting screws be used when using the wall tamper option.

NOTE: Test the unit at least once yearly.

Battery Replacement

To replace the battery, insert a flathead screwdriver into either side of the transmitter and carefully twist to separate the top and bottom plastic (Figure 3). Once separated, the battery will be visible (Figure 4). Remove the old battery and install the new battery. Ensure the correct polarity is observed. Disposal of used batteries must be made in accordance with the waste recovery and recycling regulations in your area.

Caution: The battery used in this device may present a fire or chemical burn hazard if misrated. Do not recharge, disassemble, heat above 100°C (212°F) or dispose of in fire. Replace battery with one 3V lithium battery, Panasonic CR2 or Duracell CR2 only. Use of another battery may present a risk of fire or explosion. Dispose of the used batteries as per local regulations. Keep away from children.

Figure 3
Remove Cover



Figure 4
Install Battery

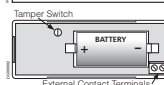
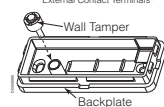


Figure 5
Change Tamper



FCC Compliance Statement

CAUTION: Changes or modifications not expressly approved by Digital Security Controls could void your authority to use this equipment. This device complies with Part 15 of the FCC 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.

IC: 160A-WS4985 The term "IC" before the radio certification number only signifies that Industry Canada technical specifications were met. This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Limited Warranty

Digital Security Controls warrants that for a period of 12 months from the date of purchase, the product shall be free of defects in materials and workmanship under normal use and that in fulfillment of any breach of such warranty, Digital Security Controls shall, at its option, repair or replace the defective equipment upon return of the equipment to its repair depot. This warranty applies only to defects in parts and workmanship and not to damage incurred in shipping or handling, or damage due to causes beyond the control of Digital Security Controls such as lightning, excessive voltage, mechanical shock, water damage, or damage arising out of abuse, alteration or improper application of the equipment. The foregoing warranty shall apply only to the original buyer, and is and shall be in lieu of any and all other warranties, whether expressed or implied and of all other obligations or liabilities on the part of Digital Security Controls. Digital Security Controls neither assumes responsibility for, nor authorizes any other person purporting to act on its behalf to modify or to change this warranty, or to assume for it any other warranty or liability concerning this product. In no event shall Digital Security Controls be liable for any direct, indirect or consequential damages, loss of anticipated profits, loss of time or any other losses incurred by the buyer in connection with the purchase, installation or operation or failure of this product.

Warning: Digital Security Controls recommends that the entire system be completely tested on a regular basis. However, despite frequent testing, and due to, but not limited to, criminal tampering or electrical disruption, it is possible for this product to fail to perform as expected. Important: Changes or modifications not expressly approved by Digital Security Controls could void the user's authority to operate this equipment.

IMPORTANT - READ CAREFULLY: DSC Software purchased with or without Products and Components is copyrighted and is purchased under the following license terms:

- This End-User License Agreement ("EULA") is a legal agreement between You (the company, individual or entity who acquired the Software and any related Hardware) and Digital Security Controls, a division of Tyco Safety Products Canada Ltd. ("DSC"), the manufacturer of the integrated security

systems and the developer of the software and any related products or components ("HARDWARE") which you acquired.

- If the DSC software product ("SOFTWARE PRODUCT") is intended to be accompanied by HARDWARE, and is NOT accompanied by new HARDWARE, You may not use, alter, or install the SOFTWARE PRODUCT. The SOFTWARE PRODUCT includes computer software, and may include associated media, printed materials, and "online" or electronic documentation.
 - Any software provided along with the SOFTWARE PRODUCT that is associated with a separate end-user license agreement is licensed to You under the terms of that license agreement.
- By installing, copying, downloading, storing, accessing or otherwise using the SOFTWARE PRODUCT, You agree unconditionally to be bound by the terms of this EULA, even if this EULA is deemed to be a modification of any previous arrangement or contract. If you do not agree to the terms of this EULA, DSC is unwilling to license the SOFTWARE PRODUCT to You, and You have no right to use it.
- SOFTWARE PRODUCT LICENSE**
The SOFTWARE PRODUCT is protected by copyright laws and international copyright treaties, as well as other intellectual property laws and treaties. The SOFTWARE PRODUCT is licensed, not sold.

1. GRANT OF LICENSE

This EULA grants You the following rights:

- Software Installation and Use - For each license you acquire, You may have only one copy of the SOFTWARE PRODUCT installed.
- Storage/Network Use - The SOFTWARE PRODUCT may not be installed, accessed, displayed, run, shared or used concurrently on from different computers, including a workstation, terminal or other digital electronic device ("Device"). In other words, if You have several workstations, You will have to acquire a license for each workstation where the SOFTWARE will be used.
- Backup Copy - You may make back-up copies of the SOFTWARE PRODUCT, but You may only have one copy per license installed at any given time. You may use the back-up copy solely for archival purposes. Except as expressly provided in this EULA, You may not otherwise make copies of the SOFTWARE PRODUCT, including the printed materials accompanying the SOFTWARE PRODUCT.

2. DESCRIPTION OF OTHER RIGHTS AND LIMITATIONS

- Limitations on Reverse Engineering, Decompilation and Disassembly - You may reverse engineer, decompile, or disassemble the SOFTWARE PRODUCT, except and only to the extent that such activity is expressly permitted by applicable law notwithstanding this limitation. You may not make any changes or modifications to the software, without the written permission of an officer of DSC. You may not remove any proprietary notices, marks or labels from the Software Product. You shall institute reasonable measures to ensure compliance with the terms and conditions of this EULA.
- Separation of Components - The SOFTWARE PRODUCT is licensed as a single product. Its component parts may not be separated for use on more than one HARDWARE unit.
- Single INTEGRATED PRODUCT - If You acquired this SOFTWARE with HARDWARE, then the SOFTWARE PRODUCT is licensed with the HARDWARE as a single inte-

grated product. In this case, the SOFTWARE PRODUCT may only be used with the HARDWARE as set forth in this EULA.- Use - You may not rent, lease or lend the SOFTWARE PRODUCT. You may not make it available to others or post it on a server or web site.

(e) Software Product Transfer - You may transfer all of Your rights under this EULA only as part of a permanent sale or transfer of the HARDWARE, provided You retain no copies. You transfer all of the SOFTWARE PRODUCT (including all component parts, the media and printed materials, any upgrades and this EULA), and provided the recipient agrees to the terms of this EULA. If the SOFTWARE PRODUCT is an upgrade, any transfer must also include all prior versions of the SOFTWARE PRODUCT.

(f) Government Use - Without prejudice to any other rights, DSC may terminate this EULA if You fail to comply with the terms and conditions of this EULA. In such event, You must destroy all copies of the SOFTWARE PRODUCT and all of its components.

(g) Trademarks - This EULA does not grant You any rights in connection with any trademarks or service marks of DSC or its suppliers.

3. COPYRIGHT - All title and intellectual property rights in and to the SOFTWARE PRODUCT (including but not limited to any images, photographs, and text incorporated into the SOFTWARE PRODUCT), the accompanying printed materials, and any copies of the SOFTWARE PRODUCT, are owned by DSC or its suppliers. You may not copy the printed materials accompanying the SOFTWARE PRODUCT. All title and intellectual property rights in and to the content which may be accessed through use of the SOFTWARE PRODUCT are the property of the respective content owner and may be protected by applicable copyright or other intellectual property laws and treaties. This EULA grants You no rights to use such content. All rights not expressly granted through this EULA are reserved by DSC and its suppliers.

4. EXPORT RESTRICTIONS - You agree that You will not export or re-export the SOFTWARE PRODUCT to any country, person, or entity subject to Canadian export restrictions.

5. CHOICE OF LAW - This Software License Agreement is governed by the laws of the Province of Ontario, Canada.

6. ARBITRATION - All disputes arising in connection with this Agreement shall be determined by final and binding arbitration in accordance with the Arbitration Act, and the parties agree to be bound by the arbitrator's decision. The place of arbitration shall be Toronto, Canada, and the language of the arbitration shall be English.

7. LIMITED WARRANTY

(a) NO WARRANTY - DSC PROVIDES THE SOFTWARE "AS IS" WITHOUT WARRANTY. DSC DOES NOT WARRANT THAT THE SOFTWARE WILL MEET YOUR REQUIREMENTS OR THAT OPERATION OF THE SOFTWARE WILL BE UNINTERRUPTED OR ERROR-FREE.

(b) CHANGES IN OPERATING ENVIRONMENT - DSC shall not be responsible for problems caused by changes in the operating characteristics of the HARDWARE, or for problems due to the interaction of the SOFTWARE PRODUCT with non-DSC SOFTWARE or HARDWARE PRODUCTS.

(c) LIMITATION OF LIABILITY: WARRANTY REFLECTS ALLOCATION OF RISK - IN ANY EVENT, IF ANY STATE IMPLIES WARRANTIES OR CONDITIONS NOT STATED IN THIS LICENSE AGREEMENT, DSC'S ENTIRE LIABILITY UNDER ANY PROVISION OF THIS LICENSE

AGREEMENT SHALL BE LIMITED TO THE GREATER OF THE AMOUNT ACTUALLY PAID BY YOU TO LICENSE THE SOFTWARE PRODUCT AND FIVE CANADIAN DOLLARS (CAD\$5.00). BECAUSE SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF LIABILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES, THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

(d) DISCLAIMER OF WARRANTIES - THIS WARRANTY CONTAINS THE ENTIRE WARRANTY AND SHALL BE IN LIEU OF ANY AND ALL OTHER WARRANTIES, WHETHER EXPRESSED OR IMPLIED (INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE) AND OF ALL OTHER OBLIGATIONS OR LIABILITIES ON THE PART OF DSC. DSC MAKES NO OTHER WARRANTIES. DSC NEITHER ASSUMES NOR AUTHORIZES ANY OTHER PERSON PURPORTING TO ACT ON ITS BEHALF TO MODIFY OR TO CHANGE THIS WARRANTY, NOR TO ASSUME FOR IT ANY OTHER WARRANTY OR LIABILITY CONCERNING THIS SOFTWARE PRODUCT.

(e) EXCLUSIVE REMEDY AND LIMITATION OF WARRANTY - UNDER NO CIRCUMSTANCES SHALL DSC BE LIABLE FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL OR INDIRECT DAMAGES BASED UPON BREACH OF WARRANTY, BREACH OF CONTRACT, NEGLIGENCE, STRICT LIABILITY, OR ANY OTHER LEGAL THEORY. SUCH DAMAGES INCLUDE, BUT ARE NOT LIMITED TO, LOSS OF PROFITS, LOSS OF THE SOFTWARE PRODUCT OR ANY ASSOCIATED EQUIPMENT, COST OF CAPITAL, COST OF SUBSTITUTE OR REPLACEMENT EQUIPMENT, FACILITIES OR SERVICES, DOWN TIME, PURCHASERS TIME, THE CLAIMS OF THIRD PARTIES, INCLUDING CUSTOMERS, AND INJURY TO PROPERTY. WARNING: DSC recommends that the entire system be completely tested on a regular basis. However, despite frequent testing, and due to, but not limited to, criminal tampering or electrical disruption, it is possible for this SOFTWARE PRODUCT to fail to perform as expected.

DSC onbeveit received a advies van het competentie orgaan dat alle uitgegeve klant informatie in het kader van de Wet van 1992 inzake de bescherming van de persoonsgegevens is beschermd als persoonsgegevens en dat de afzender hiervan in kennis moet worden gesteld.

For more info, visit www.dsc.com or contact us at info@dsc.com.

Per e-mail, zie www.dsc.com of neem contact op met ons conform de informatie van de Richtlijn 1995/EC.

"DSC" en het logo zijn de handelsmerken van de afzender. Het gebruik van de afzender's naam en het logo van de afzender is beschermd als auteursrecht volgens de Richtlijn 1995/EC.

Alle rechten voorbehouden. DSC aanvaardt geen aansprakelijkheid voor schade van welke aard ook die voortvloeit uit het gebruik van de afzender's producten, diensten of informatie.

Alle rechten voorbehouden. DSC aanvaardt geen aansprakelijkheid voor schade van welke aard ook die voortvloeit uit het gebruik van de afzender's producten, diensten of informatie.

Per e-mail, zie www.dsc.com of neem contact op met ons conform de informatie van de Richtlijn 1995/EC.

Per e-mail, zie www.dsc.com of neem contact op met ons conform de informatie van de Richtlijn 1995/EC.

DSC's naam en het logo zijn de handelsmerken van de afzender. Het gebruik van de afzender's naam en het logo van de afzender is beschermd als auteursrecht volgens de Richtlijn 1995/EC.

The complete B2TE Declaration of Conformity can be found at http://www.dsc.com/listings_index.aspx.

DSC

© 2009 Digital Security Controls, Toronto, Canada
Technical Support: 1-800-387-3630 (Canada & U.S.) or 905-760-3036 • www.dsc.com
Printed in Canada

CE CLASS 1:20
SRD1e