

Operating Instruction Manual



Making the Invisible Visible®





Operating Instruction Manual

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IMPORTANT SAFETY INFORMATION

READ AND UNDERSTAND ALL ELEMENTS OF THIS MANUAL PRIOR TO USE.

WARNING: Use of the FireFly Fuse Tool Voltage Detector in certain corner locations may result in incorrect indications. Those conditions should be avoided or re-tested in a nearby location. Voltage cancellation effects inside right angles (conductors approximately 90° apart) may cause false indications if the Detector is used within 3 feet (1 meter) of the conductors joining. Other operating limitations may exist. These are found in the Instructions for Use section of this manual (page 6).

DANGER: Never insert the FireFly Detector into metal enclosures, switchgear, through access holes or use in any situations other than overhead conductors. Incorrect use of the FireFly Detector can lead to severe injury or death.

SAFETY

Rigorous hot stick work practices should be used at all times. All industry, OSHA and company work practices and safety procedures shall apply when working on or near high voltage systems. When used properly, the FireFly Detector reliably provides an alarm warning of energized conductors.

- Only trained, professional operating personnel should use this equipment. The voltages these instruments operate at are to be considered live and dangerous and are lethal. Severe injury or death can occur if improperly used.
- Make certain all other safety considerations have been identified, implemented and are in place prior to using this equipment. Maintain proper work clearances at all times.
- Make certain the FireFly Detector is properly rated for use on the system voltages you will test.
- Prior to using, make certain to inspect the instrument for any physical damage, cleanliness and check for proper working order using the test button. Remove from service and do not use if you suspect a problem with any of the above.
- Test the instrument before and after each use by testing on a known voltage source such as the PT-FTVD Proof Tester® Detector Tester for FireFly Voltage Detectors.
- Never allow another high voltage conductor, or grounded point, to come in contact with the tool during use. Keep housing of FireFly Detector free and clear of all structures at all times.
- · Hot sticks must be used at all times per industry, OSHA and company work practices.
- Never touch the detector or control panel during contact with high voltage. The FireFly
 Detector should be considered to be at the same voltage as the conductor under test.

DESCRIPTION

The FireFly Detector combines a lighted fuse tool with voltage detection adding an extra margin of safety for those working on distribution lines. Operating frequency is 60Hz (optional 50Hz available).

The FireFly Detector includes is a single range voltage detector. One range of operating voltages is set within the unit. A typical range is 4kV-12kV. If the unit contacts a conductor energized from 4kV (line-to-line) to 12kV (line-to-line), red LEDs flash and an audible alarm is activated.

Other FireFly Detector voltage ranges are available up to and including 35kV. Do not use the detector at voltages higher or lower than it is rated. Consult the product label for the specific range or levels for the unit supplied.

When operating within the unit's voltage range (see product label), the FireFly Detector will provide both an audible and visual alarm upon making contact with an energized conductor. The FireFly Detector units will not give an alarm due to induced voltage on de-energized conductors, unless the induced voltage level exceeds the threshold voltage of the detector.

The FireFly Detector should be tested both prior to and after line testing to make certain the unit is working properly. The FireFly Voltage Detector has a built-in self-test feature to make certain the unit is working properly. Push the TEST button, which will test the battery, the electronic circuitry and the audible and visual alarm (see page 5 for more information). To test the FireFly Detector on a known voltage source before and after each use, the PT-FTVD Proof Tester FireFly Voltage Detector Tester can be used (see page 10 for more information).

If the FireFly Detector does not pass the self-test, the voltage detector batteries should be replaced and the unit re-tested. If the unit still does not pass the test, the unit should be sent in for repair. NEVER USE THE FIREFLY DETECTOR IF THE SELF-TEST IS NOT SUCCESSFULLY PASSED! See Self-Test Operation Section (page 5).

Four (4) 3V lithium batteries power the FireFly Voltage Detector and white lights. Even though the voltage detector is always "ON" and sensing voltage, the voltage sensor batteries should last for approximately one year under normal use. We do recommend however, replacing the batteries every six months. If the instrument is to be stored for a year or more, remove the battery during storage.

A universal spline adapter is built into the aluminum housing of the FireFly Detector units. Extension hot sticks are required for use at all times. Hot sticks are available from HD Electric and must be used when placing the FireFly Detector in contact with any conductor.

VOLTAGE DETECTOR SELF-TEST OPERATION

The self-test feature provides a full test of the battery, the voltage detection circuitry and the audible and visual alarm.

NOTE: The self-test should be used both prior to and after testing the conductor to confirm proper operation.

- Push and hold the self-test button on the front panel to operate the self-test. The red (alarm) LED lights will flash and the buzzer will beep. The unit is ready for operation (Figure 1).
- 2) If pressing the test button does not cause the events listed in Step 1, the unit should not be placed in operation. The battery may need replacement, see Battery Replacement section (page 8). If changing the battery does not produce the results shown in Step 1, remove the unit from service and send in for repair.



Figure 1

- 3) After completing the voltage detection on the conductor (see next section), always confirm proper function of the FireFly Detector by completing Step 1 again. If the self-test does not function as above, DO NOT assume that the test results are correct. Re-test the conductor, preferably with a different FireFly Detector.
- 4) Verify the operation of the white lights by pressing the Lights ON/OFF button. Verify both the top and side white lights turn on. Replace the two Lights batteries if the lights do not come on (page 8).

NOTE: Never use the self-test if the FireFly Detector is in contact with any voltage source.

FIREFLY™ 4/12	2kV FTVD-15
Indicates presence of voltage with	device as your only indication of high
flashing red lights and beeper. Press	voltage. Use extreme caution as
and hold the TEST button to	high voltage is nearby.
verify flashing lights and	WARNING: Detects AC
beeper are active. If not,	voltage only. Does not
replace the batteries. Two	detect DC voltage such as
batteries are required for	charged capacitors or
voltage detection and two	cable. Do not touch during
for the white lights. All are	measurement and keep
lithium 2/3A or 123A	free of other conductors and
batteries. Pressing the	grounds. Read and
LIGHTS button toggles lights	understand all instructions. For
on and off. This is a direct contact	use by trained professionals only.
device and must be used with an	Misuse or abuse of this product can lead
insulating hot stick. Do not use this	to severe injury or death.
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INSTRUCTIONS FOR USE

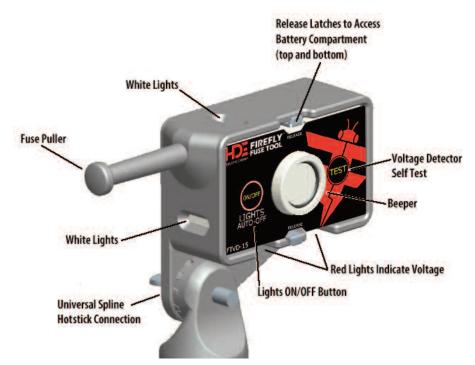
Situations To Avoid

Within certain situations and because of various system configurations, electrical field interference capable of affecting the operation of the FireFly Voltage Detector may occur. Within these areas it is imperative that you be aware of and identify all such conditions which may exist. Some examples of these situations are discussed here.

- 1) 90° CORNER CONFIGURATIONS: Using the FireFly Detector on the inside of 90° corners may cause reduced voltage sensitivity or a failure to indicate voltage.
- SAME PHASE INTERFERENCE: When two conductors of the same phase are in close proximity to one another, the field generated could shield the FireFly Detector, causing it not to operate.
- 3) OPPOSITE PHASE INTERFERENCE: This condition may occur when testing a grounded and de-energized conductor which is in close proximity to a live, ungrounded conductor. In this situation the FireFly Detector may indicate live voltage when the conductor being contacted is at ground potential.

NOTE: Only use the FireFly Detector within the voltage range specified on the product label. Do not use the FireFly Detector above or below the product label rating.

DANGER: Never allow the body of the FireFly Detector to bridge across, or come in contact with, another conductor or grounded point.



OPERATION

NOTE: Direct, metal-to-metal contact with the conductor must be made for the FireFly Voltage Detector to operate correctly.

- Place the FireFly Detector at the end of a hot stick adequate for protection for the voltage range being tested. Company, OSHA and industry safety procedures MUST BE FOLLOWED AT ALL TIMES. Connect the detector to the hot stick by way of the built-in universal spline, making certain it is securely attached.
- 2) If the FireFly Detector will be used at night or in the dark, test the Lights before use. The lights will shut off automatically 10 minutes after the most recent voltage detection or self-test, or they can be turned off manually.
- 3) Place the FireFly Detector in direct contact with the conductor being tested for voltage or inside the loop of the fuse cutout or switch. The FireFly Detector should be positioned as close to a 90° orientation (perpendicular) to the fuse or switch as possible. If the conductor is energized, the detector will give both an audible (beeping tone) and visual (red blinking lights) indication. If the conductor is not energized no signal is given.

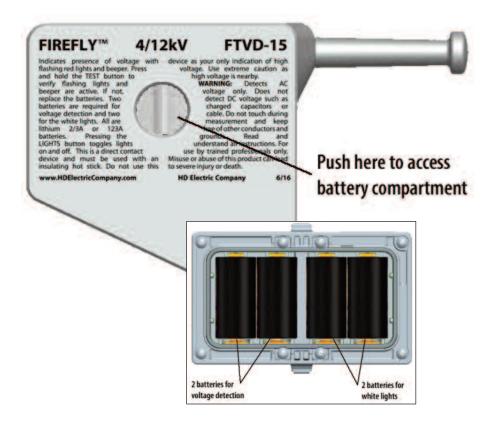
When operating within the unit's voltage range (see product label), the FireFly Detector will provide both an audible and visual alarm upon making contact with an energized conductor. The FireFly Detector unit will not give an alarm due to induced voltage on de-energized conductors, unless the induced voltage level exceeds the threshold voltage of the detector.

4) Test the FireFly Detector for proper voltage detection after each use by pushing the TEST button. See the Self-Test Operation section (page 5). The PT-FTVD Proof Tester FireFly Voltage Detector Tester can also be used to test the FireFly on a known voltage source before and after use (page 10).

BATTERY REPLACEMENT

Replace the four batteries as needed with IEC type CR17345 including Duracell[®] 123, Panasonic[®] CR123A and Energizer[®] 123. Note: Panasonic[®] type CR17335 or BR-2/3A are not acceptable replacements. Two of the four batteries power the voltage detector and the other two power the white lights. Always replace the two batteries for each function in pairs, but it is not necessary to replace all four batteries at the same time.

- Remove the molded plastic inner housing from the aluminum outer housing by pressing and holding the two latches on the front of the unit and pushing through the hole in the back of the unit.
- 2) Pull the battery cover off of the back of the molded housing.
- Replace batteries as needed for the voltage detector and/or the white lights. Verify correct battery polarity.
- 4) Replace the battery compartment cover and push the molded housing back into the aluminum holder right side up. Ensure both latches snap into place.



MAINTENANCE AND CARE

STORAGE - It is recommended for protection of the FireFly Detector that you always store it and its accessories in the carrying bag provided. If a prolonged period of storage is anticipated (six or more months), remove the batteries. Remember to replace the batteries prior to using the FireFly Detector again.

CLEANLINESS - The aluminum outer housing is very rugged, but it should be kept clean and free of dirt, grease and any other foreign materials. The inner plastic housing should also be kept clean and dry. If either housing surface integrity has been compromised in any way, return the FireFly Detector to the factory for repair or replacement. Do not use.

DAMAGE - If you suspect any mechanical or electrical damage, do not use the FireFly Detector and arrange for repair by returning to the factory.

BATTERY REPLACEMENT - See Battery Replacement section (page 8) for additional information.

CALIBRATION & TESTING - It is recommended that every twelve months the FireFly Detector is sent in for testing, cleaning and inspection. If any damage is found please contact us at 800-435-0786 to arrange for service.

Minimal maintenance is required for the FireFly Detector. The carrying bag that is supplied with the unit is recommended for storage of the FireFly Detector when it is not in use.

TECHNICAL SPECIFICATIONS

ENVIRONMENTAL CONDITIONS

Conditions - Indoor and outdoor use Altitude - Up to 6,566 ft. (2000M) Operating Temperature -40°F to +120°F (-40°C to +49°C) Humidity - 95% to 49°C (non-condensing) Measurement Category IV Overvoltage Category IV Enclosure Material - Aluminum, polycarbonite

DIMENSIONS:

Length - 6 in. (15cm), Width 1.2 in. (3cm), Height 6 in. (15cm) Weight - 1 lb. (454g) Battery Life - Voltage detection - up to 40 hours continuous alert White lights - up to 8 hours continuous Battery - 3V lithium, ANSI-5018LC, IEC-CR17345 Voltage Detection Range - Voltage ranges available from 4kV to 35kV system voltage, 50/60Hz.

OPTIONAL ACCESSORIES PT-FTVD TESTER FOR FIREFLY DETECTORS The PT-FTVD Proof Tester® FireFly Detector Tester is for use on all FireFly Detector models. This tester generates high voltage AC for testing the FireFly Voltage Detector.

To use, apply the metal plate on the bottom of the FireFly Tester to the right side of the Firefly Detector housing as shown. Press and hold the TEST button on the Proof Tester. A properly operating FireFly Detector will signal the presence of voltage with both the beeper and red lights. If the FireFly Voltage Detector does not operate, replace the Voltage Detector batteries, per the instructions (page 8). If the Proof Tester LED does not light, replace the Proof Tester battery with a 9V lithium or alkaline type battery.

CAUTION: This device generates high voltage AC for testing the voltage detection function in FireFly Detectors. There is no danger of electric shock when this Tester is used as directed. Discontinue use and return to HD Electric for service if the housing is cracked or broken, or if the battery cover is lost.

WARNING: Do not use this Tester except as directed. Do not use to test equipment other than specified FireFly Voltage Detectors. Do not apply to energized circuits or equipment. Do not operate this Tester without the battery cover and do not open the housing. Refer all servicing to the factory. Failure to follow these instructions may lead to electric shock, severe injury or death.

HOT STICKS

A range of hot sticks are available in lengths starting at 4'. Contact HD Electric for more details.





FireFly™ Detector Proof Tester® for HD Electric FireFly Fuse Tools

This tester tests the voltage detector in FireFly fuse tools. To use, apply the right flat side of the FireFly fuse tool to the metal end plate on the Tester. Press and hold the test button on the Tester. A properly operating FireFly will indicate the presence of voltage with its flashing red lights and beeper. If the FireFly does not indicate, replace the batteries. See instructions. If the Tester LED does not light, replace the Teste battery with a 9V alkaline or lithium type.

CAUTION: This device generates 200VAC for testing the voltage detector in FireFly fue tools. There is no danger of electric shock when this tester is used as directed. Discontinue use and return to HD Electric Company for service if the housing is cracked or broken or if the battery cover is lost.

WARNING: Do not use this tester except as directed. Do not use to test equipment other than FireFly fuse tools. Do not apply to energized circuits or equipment. Do not operate this Tester without the battery cover and do not open the housing. Refer all servicing to the factory. Failure to follow these instructions may lead to electric shock, severe injury or death.

HD Electric Company www.HDElectricCompany.com





TERMS AND CONDITIONS OF SALE

HD Electric Company is herein referred to either as "HDE" or "Seller" and the customer or person or entily purchasing goods or services (hereinafter collectively referred to as "Goods") is referred to as the "Buyer". These Terms and Conditors, any price list or schedule, quotation, acknowledgment or invoice from HDE relevant to the sale of the Goods and all documents incorporated by specific reference therein, constitute the complete and exclusive statement of the terms of the agreement qoverning the sale of Goods by HDE to Buyer, Buyer's acceptance of the Goods will manifes Buyer's asceptance to be selms and conditions without variation or addition. Any different or additional terms in Buyer's purchase order or other Buyer documents are hereby objected to. HDE reserves the right in its sole discretion to refuse orders.

1. PRICES AND TAXES: Unless a fixed price is quoted, the price at which this order is accepted is subject to adjustment to HDE's price in effect at the time of order. Any current or future tax or governmental charge (or increase in same) affecting Selfer's costs or production, sale or delivery or which Selfer is otherwise required to pay or collect in connection with the sale, purchase, delivery, storage, processing, use or consumption of Goods (but excluding any tax on Selfer's real to for eight production and shall be added to the price.

2. TERMS OF PAYMENT: Terms are stated on HDE's invoice in U.S. currency. HDE shall have the right, among other remedies, either to terminate this agreement or to suspend further performance under this and/or other agreements with the Buyer in the event Buyer fails to make any payment when due, which other agreements Buyer and Seller hereby amend accordingly, or HDE otherwise deems Iself inscure. Buyer shall be liable for all express, including admonys' foes, retaining to the cellicitor of past due amounts. Should Buyer if financial responsibility becreme unstatisfactory to HDE, cash payment or security statisfactory to HDE. They there are all the security is not provided, in addition to HDE's other rights and remedies, HDE may discontinue deliveries. HDE may apply a finance charge for payments made by credit cad.

3.SHPMENT AND DELUCERY: Unless otherwise expressly provided, shipments are made F.O.B. HDE's shipping point. Risk of loss or damage and responsibility shall pass from HDE'to Buyer upon delivery to and receipt by common carrier. Any claims for shortpatings or damages and frequent affect of transit are to the responsibility of buyer and shall be submitted by the Buyer directly to the carrier. Shortpage or damages and the signal different instant are the responsibility of buyer and shall be submitted by the Buyer directly as the Buyer directly as the Buyer directly as the Buyer direct the Buyer directly as the Buyer directly

4. HDE LIMITED WARRANTY: HDE covers is products with a manufacturer's warrary against detects in material or workmanship for a period of ner years in the case of Capacitor Controls and in all other circumstances for a period of ner years in the case of Capacitor Controls and in all other circumstances for a period of ner years in the case of Capacitor Controls and in all other circumstances for a period of nerge system, where Schember stated by HDE in whites. To lake advantage of the warrary is hall all other circumstances or year unless otherwise stated by HDE in whites. To lake been repared to all other discusses the term of the period of the term of the case of the period of the term of the case of the period of the term of the period of the period of the term of the period of the term of the term

6. EXCUSE OF PERFORMANCE (FORCE MAJEURE): HDE shall not be liable for delays in performance or for non-performance due to acts of God; acts of Buyer, war frer, flood; weather, sabotage, strikes, labor disputes, o'di disturbances or riots; governmental requests, restrictions, allocations, laws, regulations, orders or actions; unavailability of or delays in transportation; default of suppliers; or unforeseen circumstances or events beyond HDE's reasonable control. Delaveries or ordhe performance may be suspended for an appropriate period or cancelled by HDE upon notice to Buyer in the event of any of the foregoris, but the balance of this sagement shall otherwise remain unaffected. (HDE determines that is shilly to supply the total demand for the Goods, or to totain material used directly or indirectly in the manufacture of the Goods is, bindred, limited or made imparticable due to causes set forth herein, HDE may allocate its available supply of the Goods or such material (without obligation to acquire other supplies of any such Goods or materials) among itself and its purchasers on such basis as HDE determines to be equilable without liability for any failure of performance which may result herefrom.

7. CHANGES: HDE reserves the right to change designs and specifications for standard Goods without prior notice to Buyer, but not with respect to custom Goods being made for Buyer. HDE shall have no obligation to install or make such change in any Goods manufactured prior to the date of such change.

8. ASSIGNMENT: Buyer shall not assign its rights or delegate its duties hereunder or any interest herein without the prior written consent of HDE, and any such assignment, without such consent, shall be void

9. INSTALLATION: Buyer shall be responsible for receiving, inspecting, testing, storing, installing, starting up and maintaining all Goods.

10. NSPECTION/TESTING: Buyer, at its expense, agrees that it will promptly inspect the Goods upon receipt thereof, and in or event littler than thirty (30) days from the date of receipt of the Goods. Buyer shall deliver to HDE within filten (16) days of inspection, but in or event later than thirty-file (3) days from the date of receipt of the Goods. Buyer shall deliver to any kind with respect to the quantity, quality, condition, shipment, performance, price or appearance of the Goods are event of the Soods. Writen notice is any axia dideficiencies, detects, variations from specifications or comparises of any kind with respect to the quantity, quality, condition, shipment, performance, price or appearance of the Goods are constrained to conclusively to have inspected and accode surcentification or any data or event in data. The second second and any data is negreed thereord. Buyer may not return goods without first advising 14DE of the reasons therefore, obtaining from HDE a material authorization rumber or dosteeving such instructions as HDE may give in authorizing such return. In the event a return is authorized by HDE, are testing or maintenance a envery prevent (20%); rescloxing for each addition for any Coost and unity and in a return is authorized by HDE. In the reasons therefore, obtaining from HDE an material authorization rumber or dosteeving such instructions as HDE may give in authorizing such return. In the event a return is authorized by HDE, are testing reparkaging or maintenance a werk ty percent (20%); rescloxing for each addition and units in authorized by HDE.

11. SERVICES: If this agreement requires HDE to perform or provide any services, HDE (including without limitation its successors, assigns, agents or any person or entity acting at HDE's direction) shall not be responsible for any damages, claims, liabilities or expenses of any nature arising out of such services.

12. U.S. EXPORT CONTROL LAWS: All Goods sold to Buyer by HDE hereunder are subject to U.S. Export Control Laws. Buyer hereby agrees not to re-sell or divert any goods contrary to such laws

13. COMPLIANCE: Selenic/Contractor shall comply with all applicable federal, state or local laws, nelse, requiations, or orders. Selenic/Contractor shall comply with Executive Order 11248, as an ended by Executive Order 11

14. MISCELLANEOUS: These terms and conditions supersede all other communications, angoliations and prior roal or withins statements regarding the subject matter hered. No change, modification, rescission, dischange, abandomment, or waiver of these terms and conditions shall be binding upon HDE unless made in writing and signed on its behalt by its duiy authorized representative. No conditions, usage or trade, course of ealing or parformance, understanding or agreement purporting to modify, vary, explain, or supplement these terms and conditions shall be binding unless thereafter made in writing and signed on its behalt by its duiy authorized representative. No conditions, usage or trade, course of a failing or parformance, understanding or agreement purporting to modify, vary, explain, or supplement these terms and conditions shall be binding unless thereafter made in writing and signed by Seler. No modification on shall be effected by HDE's receipt or acceptance of Buyer's purchase orders, shipping instruction forms, of other documentation containing terms at variance with or in addition to those set forth herein, all of which are objected by DHD. We avaiter by HDE with respect to any therain or default of any other thready, and ordered and consultance with or in addition or additional terms are specifically reliced by HDE. We avaiter by HDE with respect to any therait or default of any other thready and no course of default, shall be expressed in writing and signed by HDE. The made y unlocated area subject to correction. Varially and performance relating to the interpretation and effected or the supervised or of this agreement that the supervised to correction. Varially and performance relating to the interpretation and effected or this agreement that be overweld by the lines with the soft miting and signed by HDE. The soft of the signed by HDE is also powered by the lines with or default of any other right or mendy, unless such avaitable equal to the signed by HDE is along to the soft. The soft of the i

15. DISPUTE RESOLUTION: In the event of any dispute INCLUDING, BUT NOT LIMITED TO, BREACH OF CONTRACT, BREACH OF WARRANTY, CLAIMS BASED IN TORT, NEGLIGENCE, PRODUCT LIABILITY, FRAUD, MARKETING, STATE OR FEDERAL REGULATIONE, ANY CLAIMS REGARDING THE ENFORCEABILITY OF THIS LIMITED WARRANTY, AND THE WAIVER OF CLASS ACTION TRULS between Buyer and Seller, differ may choose to resolve the dispute by binding adhation, as described below, instead of nour. THIS MEANS IF ETHERS BUYER OR SELLER CHOOSE BINDING ARBITRATION, NETHER PARTY SHALL HAVE THE RIGHT TO LITIGATE SUCH CLAIM IN COURT OR HAVE A JURY TRUL. DISCOVERY AND APPEAL RIGHTED IN BINDING ARBITRATION. Buyer and Seller agrees that the proper vorume if Arbitration is not schores hy Buyer or Seller of all adions arising in connection herewith shale be only in the state of limited main state of instance. THIS out of functions in the agreement, may be brought by either party more than two (2) years after the cause of action has accrued. The UN. Convention on Contracts for the International Sales of Goods shall not apply to this agreement.

16. CLASS ACTION WAVER: BINDING ARBITRATION MUST BE ON AN INDIVIDUAL BASIS. THIS MEANS NEITHER BUYER NOR SELLER MAY JOIN OR CONSOLIDATE CLAIMS IN ARBITRATION BY OR AGAINST OTHERS, OR LITIGATE IN COURT OR ARBITRATE ANY CLAIMS AS A REPRESENTATIVE OR MEMBER OF A CLASS OR IN A PRIVATE ATTORNEY GENERAL CAPACITY. ADMINISTRATION OF AR-BITRATION. The binding athritism on wust be administered by the American Arbitration Association (AAA) in accordance with its Commercial Arbitration Rules and/or Supplementary Procedures for Consume-Related Disputs (including proceedings to miligate costs of travel). This binding athritism (association) are with a general arbitration and an enforcement. The binding athritism shall be left at a location determined by AAA or a such other locations armutually agreed. In addition the terms stated above, the following will apply to be binding athritism (1) the athritism (1) arbitration and and/or and or any federal, state, or local court or agency, will have exclusive authority to resolve any dispute relating to the interpretation, applicability, enforceability or formation of this Agreement including any claim that all or any part of this Agreement is void or voidable; (2) the arbitrator shall agoint with the FAA.

> HD Electric Company is committed to ongoing review and improvement of its product lines, and thus reserves the right to modify product design and specifications without notice.

HD Electric Company[®] products are available through HDE[®] sales representatives worldwide.

HD Electric products receive final assembly and shipment from HDE's production facility at

Suite 400 - 4320 Executive Drive, Southaven, MS 38672.

HD Electric Company is ISO 9001:2015 certified

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