

Parkeon Inc

FIELD EVALUATION REPORT

SCOPE OF WORK

FIELD EVALUATION – (9) PARKEON TICKET VENDING MACHINES

REPORT NUMBER

104078648FLW-001

ISSUE DATE

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24-Sept-2019

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FIELD EVALUATION REPORT

Report No.: 104078648FLW-001

Date: 24-Sept-2019

Patrice Yackel
Parkeon Inc
40 Twosome Dr
Moorestown, NJ 08057

Tel: 651-283-0144
Email: Pyackel@Parkeon.com

Reference: Intertek Project Number G104078648

Subject: Intertek Field Evaluation Report of (9) Parkeon Ticket Vending Machines

Dear Ms. Yackel,

This report provides the results of the field evaluation that was conducted on your above referenced equipment to the requirements contained in the following standards:

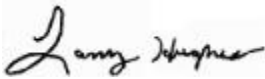
UL 751-Standard for Safety for Vending Machines,Ninth Edition, Dated July 18, 2016

The evaluation was authorized by proposal number G104078648, dated 5/15/2019. Our evaluation of the (9) Parkeon Ticket Vending Machines took place on 9/17/2019, at King County-Pier 50, 801 Alaskan Way, Seattle, WA 98104

The (9) Parkeon Ticket Vending Machines has been investigated to the Standard(s) indicated above as far as practical in the field and was found to be in essential compliance with those requirements. The equipment was labeled with our serialized Field Evaluation Label upon completion of our evaluation as noted in the details section of our report.

If you have any questions, please feel free to contact us at your convenience. We are looking forward for future opportunities to work together.

In Charge of Testing:



Lanny Hughes-509-262-8267
Field Label Evaluations-Spokane
Lanny.Hughes@Intertek.com

Cc: Richard Meell
City of Seattle
Richard.Meell@seattle.gov

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Rendered To:

Parkeon Inc
40 Twosome Dr
Moorestown, NJ 08057
Contact: Patrice Yackel

Phone: 651-283-0144

Email: Pyackel@Parkeon.com

Performed By:

Intertek Testing Service NA, Inc.
22887 NE Townsend Way
Fairview OR 97024

Products Covered:

(9) Parkeon Ticket Vending Machines

Inspection Site:

King County-Pier 50
801 Alaskan Way
Seattle, WA 98104

Results

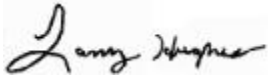
The equipment noted in this Report has been investigated and, as far as practical in the field, has been found to be essentially in compliance with the requirements of the following standards:

UL 751-Standard for Safety for Vending Machines,Ninth Edition, Dated July 18, 2016

Complete information and details of the investigation are on file at this office. The installation methods and final approvals at the installed site are the responsibility of the Local Inspection Authority Having Jurisdiction (AHJ).

Please note: this Report does not represent authorization for the use of the Intertek ETL Listing Mark.

In Charge of Testing:



Lanny Hughes
Field Label Evaluations
Intertek ETL – NFLP West
Lanny.Hughes@intertek.com

Approved by:



Christine Porter
Field Evaluation Reviewer
Intertek ETL - NFLP West
Christne.Porter@intertek.com

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SECTION 1

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SECTION 2

SCOPE

This Final Field Evaluation Report provides the results of the evaluation of non-certified or other special equipment described in this report. The purpose of these inspections is to provide a review of the electrical constructions of the equipment and provide a degree of assurance that the constructions comply with the requirements of the appropriate standards. The evaluation is based upon a combination of the essential requirements in the identified product standard and the recommended practices for evaluations as covered in Chapters 5 and 6 of NFPA 791 Recommended Practices for Field Evaluations This evaluation is limited to the equipment itself and is not specifically intended to identify issues with the supply wiring other than the rated capacity and method of termination to the equipment. The installation methods and final acceptability at the installation site are the responsibility of the Authority Having Jurisdiction.

SECTION 3

PRODUCT EVALUATION PROCEDURES

3.1 Standards: The standards used in our evaluations are the applicable American National Standards Institute (ANSI) standard, National Fire Protection Association (NFPA) standard, other Approved product standards, or Approved State or local ordinances.

3.2 Visual Inspection: A visual inspection of the equipment was conducted, comparing product construction to requirements of the applicable standard. The evaluation included directly connected loads to the equipment identified in the report. Complete inspection records are on file at Intertek.

Suitability for Use and Location: The equipment was found to be suitable for the indoor, non-hazardous location. There were no adverse environmental conditions found that would impair the proper operation and use of the equipment. The equipment was suitably protected from physical damage.

Condition of the equipment: The equipment was in satisfactory condition. No components were found to be damaged in a manner that impacted performance and operation. Metallic parts of the equipment had suitable corrosion protection. Nonmetallic parts were not likely to suffer deterioration or create a fire hazard.

Access and Workspace clearances: Access was provided about all electrical equipment to permit ready and safe operation and maintenance of the equipment. The work space clearances for electrical enclosures likely to require examination, adjustment, servicing, or maintenance while energized were provided in compliance with the NEC® Section 110.26 and the applicable standard.

Exposed Parts: Adequate spacings, creepage and clearances were provided between live parts of opposite polarity and noncurrent-carrying metallic parts, or suitable barriers were provided. Where live parts were exposed suitable guards or barriers were provided.

Separation: Electrical conductor insulations of different voltage systems were found to be either rated for the highest voltage or were separated by suitable barriers. Electrical wiring was separated from other utilities such as oil and water by suitable barriers.

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Grounding and Bonding: All required noncurrent-carrying metallic parts of the equipment have been determined to be suitably bonded to the supply equipment grounding conductor. The equipment grounding conductors and bonding jumpers were terminated properly. Equipment grounding conductors and bonding jumpers served no other function.

Internal Overcurrent Protection: The type and ratings of the overcurrent protection provided within the equipment was suitable for the conductors and loads served.

External Overcurrent Protection: The rating of the overcurrent protection from the source to the equipment was verified as stated below:

Type-OCP (fuse or CB)	Rating of the OCP	AIR of the OCP
MCCB	20A	10kA

The determination of the amount of available fault current of the electrical supply delivery system to the equipment was not a part of this evaluation.

Conductors: All equipment wiring was found to be certified for use, accepted by testing, or verified as acceptable. Conductors were used within the applicable voltage and temperature ratings. Conductor sizes were in accordance with the allowable ampacities given in the standards identified in this report.

Wiring Methods: The equipment wiring methods were properly secured, supported and routed away from physical damage. The wiring methods utilized in and one the equipment provided the required separation and protection from live parts as required by the standards noted in this report.

Field Wiring Terminations: All field wiring terminals were identified and were suitable for the conductor type, stranding, and ampacity of conductors being terminated. Terminals suitable for more than one conductor were marked.

Guarding of Equipment: The evaluated equipment identified in this report has been provided with suitable covers, enclosures and guards as required by the standards used for the evaluation. Fastenings used for covers were in accordance with the standard. Hinged doors are able to open at least 90°. Swing-out panels if used were able to open at least 110°. Labels were applied on the equipment where required by the standard apprising the users of the physical hazards associated with the equipment.

Markings: Where applicable the required Caution, Warning, and Danger markings were provided on the equipment. Complete nameplates were provided as required by the standard.

General Engineering Practices: The equipment was constructed to meet the requirements of the standards identified in this report. The equipment was constructed in a workmanlike fashion.

Other Comments: This equipment was evaluated for use at the installed site noted on the cover page of this report only. Any modifications or moving of the subject equipment requires a re-evaluation.

3.3 Product Type Testing: The electrical tests conducted on the equipment followed the standards identified in this report as closely as practicable, considering the limits of a non-laboratory setting and the need for

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the equipment to perform all required functions after the tests. The following non-destructive tests were conducted with satisfactory results. Test results are on file at the Intertek office.

- Dielectric Voltage Withhold Test (Fluke)
- Insulation Resistance
- Grounding Continuity
- Temperature

3.4 Resolution of Deficiencies: Any deficiencies identified on the subject equipment during the evaluation and testing process are noted in the table below. Methods of resolution are reviewed, agreed upon, and verified by Intertek before the ETL Label was applied.

Deficiency	Approved Resolution
Improper protection for wiring subject to damage from servicing machine.	Client to secured & protected all wiring subject to damage from servicing machine

3.5 Technical Report: Upon completion of the Field Evaluation and application of the Field Evaluation Label, this final technical report was prepared and issued to Parkeon Inc for the installed site.

SECTION 4

PRODUCTS EVALUATED

4.1 Equipment Identification and Field Label Number

Field evaluation of (5) Existing & (4) New "Parkeon" ticket dispensing vending machines for King County Water Taxis located at their new terminal building on Pier 50 Seattle, WA. Seven are installed under protection of weather & two are installed outdoors. They are substantially built for outdoors with metal enclosures & rubber gasketed seams. All doors or openings are key-locked and only accessible to qualified personnel. The lower compartment contains the supply conductors, breaker box & power supply. The upper compartment contains only the 12VDC devices such as control boards, coin/ticket dispensing devices & sealed battery. The electrical supply (230VAC) for each machine feeds a ABB Breaker then to a 120-240V power supply with a 12VDC output. A battery powers the 12VDC if the main power is interrupted. The control panel internal components consist of but are not limited to 12VDC control boards, & network router. Certified power circuit conductors, cables and internal control panel low voltage wiring is numbered and rated for the amperage, temperature and voltage involved. The client added seal-tite protection for the internal supply conductors feeding the breaker box inside the (5) existing vending machines. After verification that the non-compliant issues had been resolved & the required tests passed, an approval label was applied onto the machine enclosure.

Manufacturer (Description)	Model	Ratings	Serial	ETL No
Parkeon (Ticket Vending Machine)	T68	120V/240V 50/60Hz 1Ø 300MA (Control Power) 12VDC	900003388 (New)	450042 (1 of 9)
Same as Above			900003387 (New)	450043 (2 of 9)
Same as Above			900003386 (New)	450044 (3 of 9)
Same as Above			900003385	450045

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	(New)	(4 of 9)
Same as Above	900003180 (Existing)	450046 (5 of 9)
Same as Above	900003176 (Existing)	450047 (6 of 9)
Same as Above	900003177 (Existing)	450048 (7 of 9)
Same as Above	900003165 (Existing)	450049 (8 of 9)
Same as Above	900003153 (Existing)	450050 (9 of 9)

- 4.2 Conditions of Use and Acceptability: This product is intended for use and installation in a non-classified (non-hazardous) location and for connection to the appropriately sized branch circuit. The installation methods and final acceptability at the installation site are the responsibility of the Authority Having Jurisdiction.
- 4.3 Schematics and Photographs: Schematics or drawings representative of the equipment were provided to Intertek for review during the evaluation of this equipment. Electronic copies are on file in the Intertek project folder. The photographs on the following pages are representative of the equipment evaluated. Additional photographs taken are on file in the Intertek project folder.



Photo 1- New King County Terminal



Photo 2- New "Parkeon" Vending Machines

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Photo 3- Existing "Parkeon" Vending Machine



Photo 4- Upper Compartment (12VDC)

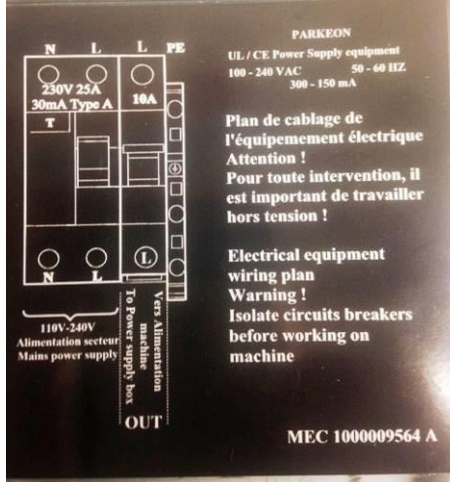


Photo 5- Breaker Box Label



Photo 6- Power Supply Label



Photo 7-Supply Wiring Before Seal-Tite Protection



Photo 8- Client Added Seal-Tite Protection

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Photo 9- Internal Breaker Box



Photo 10- Supply Raceways to Vending Machines



Photo 11- Door Bonding Strap



Photo 10- ETL Approval Label