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| Graphical user interface, text  Description automatically generated  **IECEx TEST REPORT**  **Addendum for gaseous hydrogen dispensing units**  **(IECEx OD 290)** | | |
| ExTR Reference Number : |  | |
| ExTR Free Reference Number : |  | |
| Compiled by + signature (ExTL) : | (enter typed name here) | (enter signature here) |
| Reviewed by + signature (ExTL) : | (enter typed name here) | (enter signature here) |
| Date of issue : |  | |
| Ex Testing Laboratory (ExTL) : |  | |
| Address : |  | |
| Applicant’s name : |  | |
| Address : |  | |
| Standards : | IEC TS 60079-46 supported by IECEx OD 290 | |
| Test Report Form Number : | ExTR Addendum for OD 290\_2A (released 2024-11) | |
| Related Amendments, Corrigenda or ISHs : | N/A | |
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| Possible test case verdicts: |  |
| - test case does not apply to the test item :N / A |  |
| - test item does meet the requirement :Pass |  |
| General remarks:  The test results presented in this ExTR Addendum relate only to the item or product tested, and are only valid when considered together with the related Ex Test Report that was previously issued, along with any previously issued ExTR Addendums for the same item or product.  Only clauses and manufacturer’s documents impacted by this document are detailed.   * "(see Attachment #)" refers to additional information appended to this document. * "(see appended table)" refers to a table appended to this document. * Throughout this document, a point is used as the decimal separator.   The technical content of this ExTR Addendum shall not be reproduced except in full without the written approval of the Issuing ExCB and ExTL. | |

| **IECEx OD 290** | | | |
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| **Clause** | **Requirement – Test** | **Result – Remark** | **Verdict** |
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| A.2 | Requirements | | |
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| A.2.1 | General Material Requirements |  |  |
|  |  |  |  |
| A.2.2 | Construction and assembly requirements |  |  |
|  | | | |
| A.2.3 | Dispenser hydrogen systems |  |  |
|  | | | |
| A.2.4 | Piping and fittings |  |  |
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| A.2.5 | Overpressure protection devices |  |  |
|  | | | |
| A.2.6 | Filters |  |  |
|  | | | |
| A.2.7 | Valves |  |  |
|  | | | |
| A.2.8 | Venting |  |  |
|  | | | |
| A.2.9 | Dispenser fueling assembly |  |  |
|  | | | |
| A.2.10 | Breakaway devices |  |  |
|  | | | |
| A.2.11 | Instruments for gaseous hydrogen systems |  |  |
|  | | | |
| A.2.12 | Metering |  |  |
|  | | | |
| A.2.13 | Electrical equipment and wiring |  |  |
|  | | | |
| A.2.14 | Emergency shutdown system (ESS) |  |  |
|  | | | |
| A.3 | Dispensing requirements | | |
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| A.3.1 | Control of dispensing |  |  |
|  | | | |
| A.3.2 | Dispensing temperature, pressure and flow rate |  |  |
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| A.3.3. | Pressure integrity check (leak check) |  |  |
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| A.3.4 | Fueling protocol and process limits |  |  |
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| A.3.5 | Post dispensing |  |  |
|  | | | |
| A.4 | Dispenser fault management |  |  |
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| A.5 | Qualification tests | | |
|  | | | |
| A.5.1 | General |  |  |
|  | | | |
| A.5.2 | Standard test conditions |  |  |
|  | | | |
| A.5.3 | Proof pressure test |  |  |
|  | | | |
| A.5.4 | Leakage test |  |  |
|  | | | |
| A.5.5 | Impact test |  |  |
|  | | | |
| A.5.6 | Dispenser shutdown test |  |  |
|  | | | |
| A.5.7 | Hose rupture |  |  |
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| A.5.8 | Hose breakaway test |  |  |
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| A.5.9 | Prevention of electrostatic discharge test |  |  |
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| A.5.10 | Dispenser (ground) continuity test |  |  |
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| A.5.11 | Dielectric voltage-withstand test |  |  |
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| A.5.12 | Dispenser cabinet test |  |  |
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| A.6 | Routine tests |  |  |

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| Measurement Section, including Additional Narrative Remarks (as deemed applicable) |