File
**LR1427**

# CERTIFICATE OF COMPLIANCE
## (ISO TYPE 3 CERTIFICATION SYSTEM)

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| Issued to | Daily Thermetrics Corporation |
| Address | 5700 Hartsdale Drive<br>Houston, Texas, 77036 USA |
| Project Number | LR1427-3 (Ex d) |
| Product | Industrial Sensor Assembly 310HZ and 310FHZ Series |
| Model Number | 310HZ-1, 310HZ-2, 310HZ-3, 310HZ-4, 310HZ-5, 310HZ-6, 310HZ 7, 310HZ-8, 310HZ-9, 310HZ-0, and 310FHZ, 310HZ-11, 310HZ-12<br>(Refer to Report No. LR1437-3d for the full model nomenclature) |
| Ratings | $U_{max}$ = 42.4 V dc SELV or PELV;<br>See IOM for process temperature and pressure limits! |
| Markings | i) Models 310HZ-*1**-*-***-****, 310HZ-*2**-*-***-****, and 310HZ-*3**-*-***-**** (Options in which the Pushna Model 1010, 1014 or 1016 enclosure is used for the connection box)<br>Class I, Division 1, Groups A, B, C, D T6…T4<br>Class I, Zone 1, AEx db IIC T6 … T4 Gb<br>Ex db IIC T6 … T4 Gb<br>Ta= -40 °C to +80 °C; Type 4X; IP66<br><br>ii) Models 310HZ-*4**-*-***-**** (Option in which the Limatherm Model XD-AD enclosure is used for the connection box)<br>Class I, Division 1, Groups A, B, C, D T6…T4<br>Class I, Zone 1, AEx db IIC T6 … T4 Gb<br>Ex db IIC T6 … T4 Gb<br>Ta= -40 °C to +80 °C; Type 4X; IP66<br><br>iii) Model 310HZ-*5**-*-***-**** (an enclosure certified as 'Ex db' for use in Zone 1 classified area and/or Class I, Div. 1 for use in Class I, Division 1 classified area)<br>Marking based on minimum degree of protection of each of the individual component of the assembly |
| Applicable Standards | CSA C22.2 No. 60079-0:2019, CSA C22.2 No. 60079-1: 2016,<br>CSA C22.2 No. 30-1986, CSA C22.2 No. 60529:16,<br>UL 60079-0 7th ed., UL 60079-1: 7th ed., UL 1203 5th Ed., |
| Factory/Manufacturing Location | Daily Thermetrics Corporation<br>5700 Hartsdale Drive<br>Houston, Texas, 77036 USA |

**Statement of Compliance**: The product(s) identified in this Certificate and described in the Report covered under the above referenced project number have been investigated and found to be in compliance with the relevant requirements of the above referenced standard(s). As such, they are eligible to bear the QPS Certification Mark shown below, in accordance with the provisions of QPS's Service Agreement.

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Issued By: Dave Adams, P.Eng
Manager, Hazardous Locations [Ex Equipment] Department

Signature:

Date: October 14, 2020

**General Requirements:**

1. Grounded junctions within models 310HZ and 310FHZ are not capable of withstanding the 500 V rms between the measurement circuit and ground. This must be taken into account during installation.
2. Industrial Sensor Assembly 310HZ and 310FHZ Series must be either connected to a SELV or PELV system, or directly connected to an apparatus compliant with IEC 60950 series, IEC 610101-1, or equivalent. Product rating is given on the marking plate of each individual assembly as well as in the IOM and shall be respected.
3. The assembly is tagged with design pressure and temperature. These values shall not be exceeded. Specifically, during normal operation, the maximum operating temperatures of any component of the sensor assembly must not exceed the designed temperature indicated on the product. The probe must not be exposed to a pressure higher than indicated on the product.
4. The cable glands must be properly selected to suit the final application of the assembly and/or to maintain the protection method marked thereon.
5. The Industrial Sensor Assembly 310HZ and 310 FHZ Series permits conduits entries to be added in the field and they must be installed within 18 inches (0.46 m) of the enclosure.
6. Special attention shall be given to the source of heating the equipment is intended to be attached to, because it can contribute such to elevate the local ambient temperature for the cable. The end user shall read and follow the User Manual where this concern is given them to attention.
7. In the case when a generic enclosure model is used (different from the listed connection enclosure models), the equipment must be assembled with a certified 'Ex db' (Zone 1 application), or Class I, Div. 1 enclosure, approved to the edition(s) of standard(s) that are, at the time of placing the assembly on the market, currently in use. The enclosure shall be of simple geometry and with a volume < 500 $cm^3$.
8. All threaded joints shall be properly tightened in order to maintain the declared ingress protection IP66 and/or Type 4 associated ingress protection.
9. Metal sheath containing thermocouple and/or RTD wires and flexible metal conduit containing extension/lead wires must be protected against impact in the final installation position of this assembly.