



File
LR1427

CERTIFICATE OF COMPLIANCE
(ISO TYPE 3 CERTIFICATION SYSTEM)

Issued to	Daily Thermetrics Corporation
Address	5700 Hartsdale Drive Houston, TX 77036 USA
Project Number	LR1427-3R1 (Ex d)
Product	Industrial Sensor Assembly 310HZ, 310FHZ and 310BHZ Series
Model Number	310HZ-1, 310HZ-2, 310HZ-3, 310HZ-4, 310HZ-5, 310HZ-6, 310HZ 7, 310HZ-8, 310HZ-9, 310HZ-10, 310HZ-11, 310HZ-12, 310FHZ and 310BHZ (Refer to Report No. LR1437-3 (IEx d) for the full model nomenclature)
Electrical Ratings	Umax = 42.4 V dc SELV or PELV; See IOM for process temperature and pressure limits
Markings	<p>i) Models 310HZ-*1**-*...***, 310HZ-*2**-*...***, 310HZ-*3**-*...***, 310FHZ-1**-*...***, 310FHZ-2**-*...***, 310FHZ-3**-*...***, 310BHZ-1**-*...***, 310BHZ-2**-*...*** and 310BHZ-3**-*...*** (Options in which the Pushna Model 1010, 1014 or 1016 enclosure is used for the connection box)</p> <p>Class I, Division 1, Groups B, C, D T6...T4 Class I, Zone 1, AEx db IIC T6 ... T4 Gb Ex db IIC T6 ... T4 Gb Ta= -40 °C to +80 °C; Type 4X; IP66</p> <p>ii) Models 310HZ-*4**-*...***, 310FHZ-4**-*...*** and 310BHZ-4**-*...***, (Option in which the Limatherm Model XD-AD enclosure is used for the connection box)</p> <p>Class I, Division 1, Groups A, B, C, D T6...T4 Class I, Zone 1, AEx db IIC T6 ... T4 Gb Ex db IIC T6 ... T4 Gb Ta= -40 °C to +80 °C; Type 4X; IP66</p> <p>iii) Models 310HZ-*5**-*...***310FHZ-5**-*...*** and 310BHZ-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) Marking based on minimum degree of protection (the lowest rating) of each of the individual component of the assembly</p>
Applicable Standards	CSA C22.2 No. 60079-0:2015 CSA C22.2 No. 60079-1:2016 CSA C22.2 No. 30-1986 (R2016), CSA C22.2 No. 60529:16 UL 60079-0:2013 UL 60079-1:2015 UL 1203 5th Ed. (2015) IEC/ANSI 60529-2004





QPS Evaluation Services Inc
Testing, Certification and Field Evaluation Body
Accredited in Canada, the USA, and Internationally

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Factory/Manufacturing Location	Daily Thermetrics Corporation 5700 Hartsdale Drive Houston, Texas, 77036 USA
Conditions of Certification	<ol style="list-style-type: none"> 1. Grounded junctions within models 310HZ, 310FHZ and 310BHZ 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, 310FHZ and 310BHZ 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, 310FHZ and 310BHZ 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 cm³. 8. All threaded joints shall be properly tightened in order to maintain the declared ingress protection IP66 and/or Type 4 associated ingress protection.

Statement of Compliance: The products identified in this Certificate and described in the Certification 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.

IMPORTANT NOTE: In order to maintain the integrity of the QPS Mark(s), certification will be revoked if:

- (1) Compliance to the above-mentioned Standard(s), or those identified in future QPS Standard Update Notice – SUN (QSD 55) is not maintained, or,
- (2) If the product/equipment is modified after certification is granted without prior written consent by QPS



Issued By: Kerry Nice, A.Sc.T.

Signature: *K. Nice*

Date: April 3, 2023



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