



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx QPS 16.0001X Issue No: 0 Certificate history:
Status: **Current** Page 1 of 4 Issue No. 0 (2016-03-31)

Date of Issue: **2016-03-31**

Applicant: **Teledyne Analytical Instruments**
16830 Chestnut Street
City of Industry
California
91748 - 1017
United States of America

Electrical Apparatus: **Model 5650 Water in Oil Monitor**
Optional accessory:

Type of Protection: **Intrinsic Safety 'I'**

Marking:
IECEX QPS 16.0001X
Ex ia IIB T4 Ga
Ui=28V
Ii= 93mA
Pi=0.66 W
Ci= 237 m F (at 7.2 Vdc) or 110nF (at 28Vdc)
Li=0 m H

*Approved for issue on behalf of the IECEx
Certification Body:*

Dave Adams, P. Eng.

Position:

Manager, Hazardous Locations Department [Ex Equipment]

*Signature:
(for printed version)*

Date:

March 31, 2016

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:



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QPS
Evaluation Services Inc.
81 Kelfield St
Unit 8
Toronto, Ontario M9W 5A3
Canada





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Manufacturer: **Teledyne Analytical Instruments**
16830 Chestnut Street
City of Industry
California
91748 - 1017
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Additional Manufacturing
location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-26 : 2006 Edition:2	Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[CA/QPS/EXTR16.0004/00](#)

Quality Assessment Report:

[GB/BAS/QAR12.0008/03](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Teledyne Model 5650 instrument is designed to detect the presence of water in flowing liquid hydrocarbons. They are installed in series with a liquid pipeline carrying hydrocarbons and continually monitor the contents of the pipe to detect the presence of water, generating a 4 to 20 mA signal that is proportional to the amount of water detected. The variations of this equipment include various sizes of flow tubes.

Model Code:

5650-XXXX

Where X denotes connection options that do not affect intrinsic safety

CONDITIONS OF CERTIFICATION: YES as shown below:

1. Intrinsically safe isolation shall be achieved using barriers of the isolator or galvanic type per Control Drawing No. D-93392
2. The RS232 connection is for factory calibration of the unit only. Under no circumstances shall the user connect the RS232 cable to the monitor. Should the unit require recalibration it shall be return to the manufacturer.
3. The Water in Oil Monitor, model 5650 is not capable of withstanding the 500v rms electrical strength test. This must be taken into consideration when installing the monitor.