



# 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](http://www.iecex.com)

Certificate No.: IECEx CSA 17.0034X Issue No: 0 Certificate history:  
Issue No. 0 (2017-10-19)

Status: Current Page 1 of 3

Date of Issue: 2017-10-19

Applicant: **Arjay Engineering Limited**  
2851 Brighton Rd  
Oakville, Ontario L6H 6C9  
Canada

Equipment: **Capacitance Controller model 2880 Series, Capacitance Controller model 2880R Series,  
and Arjay probe**

Optional accessory:

Type of Protection: **Ex db**

Marking: Ex db IIC T5 Gb  
2880 series controller - Ta: -20°C to +55 °C  
Arjay probe - Ta -40°C to +55 °C

Approved for issue on behalf of the IECEx  
Certification Body:

Dorin Stochitoiu

Position:

Technical Advisor

Signature:  
(for printed version)

Date:

October, 19 / 2017

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:

CSA Group  
178 Rexdale Boulevard  
Toronto, Ontario M9W 1R3  
Canada





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Manufacturer: **Arjay Engineering Limited**  
2851 Brighton Rd  
Oakville, Ontario L6H 6C9  
Canada

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 Explosive atmospheres - Part 0: General requirements

Edition:6.0

IEC 60079-1 : 2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"

Edition:7.0

*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/CSA/ExTR17.0030/00](#)

Quality Assessment Report:

[CA/CSA/QAR16.0011/00](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The Arjay 2800 Series Capacitance Controllers and Probes monitor capacitance change in a process. The equipment sends out measurements via the serial communication port, analog output or activates relay contacts to provide control means.

The 2880 style Controller is mounted integral to the probe. All control functions are contained within the probe mounted housing.

The 2280R style Controller is mounted remote from the probe. All control functions are contained within the remote mounted housing. A circuit at the Probe (PMC-2800) interfaces with the remote controller.

The stand-alone Probe is used when a device that is monitoring the probe is mounted outside the Hazardous Rated area.

### SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Process temperature for the standard and heavy duty probes are  $-60^{\circ}\text{C}$  to  $+200^{\circ}\text{C}$  and for flexible probe is  $60^{\circ}\text{C}$  to  $+100^{\circ}\text{C}$ . It is end-user's responsibility to ensure that the ambient around the Capacitance Controller and ARJAY Probe does not exceed the permitted ambient of  $+55^{\circ}\text{C}$ .
2. The maximum process pressure is 1500psi/ 10342KPa.
3. Only approved certified entry devices shall be used.
4. Flameproof joints are not permitted to be repaired in the field. If the flamepath is damaged, the enclosure is to be removed from service and replaced with a new enclosure.