



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 LCIE 18.0018X

Issue No: 1

Certificate history:

Status: **Current**

Issue No. 1 (2019-03-26)

Issue No. 0 (2018-06-08)

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Date of Issue: **2019-03-26**

Applicant: **ASCO SAS**
53, rue de la Beauce
28110 Lucé
France

Equipment: **Fieldbus electronic - Type: P580AE***010*****

Optional accessory:

Type of Protection: **Ex ec**

Marking: Ex ec IIC T4 Gc

IECEX LCIE 18.0018 X

(Refer to attachment for full marking)

Approved for issue on behalf of the IECEx
Certification Body:

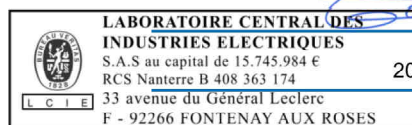
Julien Gauthier

Position:

Certification Officer

Signature:
(for printed version)

Date:



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:

Laboratoire Central des Industries Electriques (LCIE)
33 Avenue du General Leclerc
FR-92260 Fontenay-aux-Roses
France





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Manufacturer: **ASCO SAS**
53, rue de la Beauce
28110 Lucé
France

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 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 60079-7 : 2015 Explosive atmospheres – Part 7: Equipment protection by increased safety "e"
Edition:5.0

*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:

[FR/LCIE/ExTR18.0036/00](#)

[FR/LCIE/ExTR19.0009/00](#)

Quality Assessment Report:

[FR/LCI/QAR07.0006/10](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Fieldbus electronic, type P580AE***010***, is electronic control intended to allow Fieldbus connection to pneumatic manifolds, type *501AV***0*** (IECEX LCIE 18.0016X) or type *502AV***0V*** (IECEX LCIE 18.0017X).

Several versions of protocols are available. A small interface using a LCD display and push buttons allows to setup the product manually.

The product is connected to power supply by standard connectors. When it is required, another standard connector is used for Fieldbus communication and a third connector can be used for an additional power supply. Status information is provided by LEDs.

The electrical connection to the manifold is made by a ribbon cable and protected by the housing of the product, this one being assembled on the manifold by mean of screws.

(Refer to attachment for range details)

Instructions:

Installation and Maintenance Instructions, 580, Ref. 531325-001.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1 standard.
- For final installation, the fieldbus electronic must be connected in compliance with standard IEC 60079-14 requirements, providing and maintaining an enclosure with minimum ingress protection of IP 54.
- Transient protection shall be provided that is set at a level not exceeding 140 % of the peak rated voltage value at the supply terminals to the equipment.
- The equipment shall be installed according to the instruction manual provided by the manufacturer.
- When the equipment is provided with the protocol Charm 1 or Charm 2, there is two different power supply voltage. The supply voltage 24 VDC is for valves and the supply voltage 6.3 VDC is for node (communication).



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Issue 00 :

- Initial issue according to IEC 60079-0, Ed.6.0 and IEC 60079-7, Ed.5.0 standards.

Issue 01 :

- Addition of a new protocol, CH2 type.
- Update power consumption for all protocols.

Annex:

[IECEX LCIE 18.0018X - Issue 01 - Annex 01 - ASCO SAS.pdf](#)

MARKING

ASCO™ or NUMATICS™ or ASCO-NUMATICS™
 Address : ...
 Type : P580AE***010***
 Serial number : ...
 Year of construction : ...
 Ex ec IIC T4 Gc
 IECEX LCIE 18.0018X
 -10°C ≤ T_{amb} ≤ +50°C
 U = 24 V DC ; P = 1 to 3.5 W

RANGE DETAILS

P 580 A E *** 0 1 0 ***	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top;"> <p>Product Series 580 = 580 Series Electronics</p> <p>Revision A = Initial Release</p> <p>Actuation E = Electronics</p> </td> <td style="width: 50%; vertical-align: top;"> <p>Options 71W = Prepared for Ex Approvals D45 = 71W+DRM (Din Rail Mounting)</p> <p>Connector Type 1 = M12 Connector</p> <p>Protocol CO1 = CANopen DN1 = DeviceNet EC1 = EtherCAT EP1 = EtherNet/IP PN1 = PROFINET PT1 = PROFIBUS-DP PL1 = Ethernet POWERLINK CH1 = Charm 1 CH2 = Charm 2 DS4 = SUB BUS ED1 = Ethernet/IP DLR LM1 = IO-Link Class A (4 pin) LM2 = IO-Link Class B (5 pin) </p> </td> </tr> </table>	<p>Product Series 580 = 580 Series Electronics</p> <p>Revision A = Initial Release</p> <p>Actuation E = Electronics</p>	<p>Options 71W = Prepared for Ex Approvals D45 = 71W+DRM (Din Rail Mounting)</p> <p>Connector Type 1 = M12 Connector</p> <p>Protocol CO1 = CANopen DN1 = DeviceNet EC1 = EtherCAT EP1 = EtherNet/IP PN1 = PROFINET PT1 = PROFIBUS-DP PL1 = Ethernet POWERLINK CH1 = Charm 1 CH2 = Charm 2 DS4 = SUB BUS ED1 = Ethernet/IP DLR LM1 = IO-Link Class A (4 pin) LM2 = IO-Link Class B (5 pin) </p>
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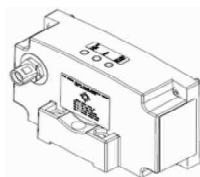
RATINGS

Supply voltage :
For protocols Charm 1 and Charm 2 :
 6.3 V DC for node (communication) and 24 V DC for valves.
For all others protocols : 24 V DC
 Power : 1 to 3.5 W

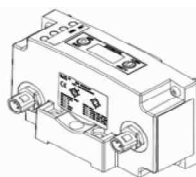
ROUTINE TESTS

None.

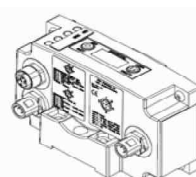
APPARATUS OVERVIEW



1 connector type



2 connectors type
+ LCD display



3 connectors type
+ LCD display