



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.: issue No.:

Status:

Date of Issue: **2014-12-02** Page 1 of 3

Applicant: **Westermo Teleindustri AB**
SE-640 40 Stora Sundby
Sweden

Electrical Apparatus: **EDW-100 Ex & EDW-120 Ex Serial Adapters**
Optional accessory:

Type of Protection: **Type of Protection 'n'**

Marking: **Ex nA IIC T4 Gc (-25°C ≤ Ta ≤ +70°C)**

Approved for issue on behalf of the IECEx Certification Body: R.S. Sinclair

Position: General Manager

Signature:
(for printed version)

Date:

2-12-14

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:

SGS Baseefa Limited
Rockhead Business Park
Staden Lane
Buxton
Derbyshire
SK17 9RZ
United Kingdom





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Manufacturer: **Westermo Teleindustri AB**
SE-640 40 Stora Sundby
Sweden

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 60079-15 : 2010 Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition: 4

*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:

[GB/BAS/ExTR14.0270/00](#)

Quality Assessment Report:

[GB/BAS/QAR13.0020/00](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The EDW-100 Ex & EDW-120 Ex Serial Adapters are Industrial Ethernet to serial adapters designed to allow RS-232, RS422 & RS-485 serial devices to communicate via TCP/IP Ethernet networks via a 10/100BASE-T interface. Both variants of the equipment support TCP, UDP, ICMP, IGMP, HTTP and ARP networking protocols. The EDW-100 Ex can additionally be configured to act as a Modbus TCP Gateway supporting Modbus RTU and Modbus ASCII in both master and slave modes.

The EDW-100 Ex Serial Adapter comprises a DIN Rail mounted plastic enclosure containing a single printed circuit board. The equipment is supplied via dual power supply terminals which support redundancy power connection to the equipment. The EDW-100-Ex has a 10/100BASE-T Ethernet and RS-232 serial port on the front of the equipment with a RS-422/485 serial port on the side of the equipment. The RS-422/485 and Ethernet ports are configured using DIP switches. Other equipment settings are accessed via the password protected web interface. Basic diagnostic information is provided by a series of LEDs on the front of the equipment.

The EDW-120 Ex Serial Adapter is almost identical to the EDW-100 Ex with regard to appearance and circuitry. The main difference is that it is fitted with two parallel connected RS-232 serial ports, one next to the Ethernet port on the front of the equipment and one on the side of the equipment. The Ethernet port is configured using integral DIP switches. Basic diagnostic information is provided by a series of LEDs on the front of the equipment.

Input Parameters:

Power Connector: +VA, +VB & COM

Working Voltage Range = 12V to 48V d.c.

CONDITIONS OF CERTIFICATION: YES as shown below:

1. The equipment must be installed in an area of not more than pollution degree 2 in accordance with IEC 60664-1, and in an enclosure that provides a minimum degree of protection of at least IP54 and complies with the relevant requirements of IEC 60079-0 and IEC 60079-15.

2. External connections to the equipment must not be inserted or removed unless either the area in which the equipment is installed is known to be non-hazardous, or the circuits connected have been de-energised.

3. The network cables once installed must be properly fixed by the use of cable ties or similar to reduce the risk of accidentally withdrawing the plugs.