



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 BAS 14.0074X Issue No: 0 Certificate history:
Status: Current Page 1 of 3 Issue No. 0 (2014-06-19)
Date of Issue: 2014-06-19
Applicant: Westermo Teleindustri AB
SE-640 40 Stora Sundby
Sweden
Electrical Apparatus: Wolverine Industrial Ethernet SHDSL Extenders
Optional accessory:
Type of Protection: Type of Protection 'n'
Marking: Ex nA IIC T4 Gc (-40°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:

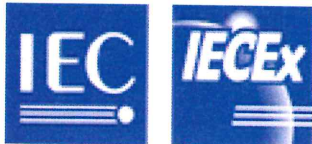

19 JUNE 2014

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/ExTR14.0153/00](#)

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 Wolverine Industrial Ethernet SHDSL Extenders are a range of Ethernet Extenders with integral switch and serial port allowing interconnection with legacy equipment. The equipment provides switching and routing functionality including VLAN support, Layer 2/3 switching, Static Routing, Firewall functions, IGMP Snooping and VPN support. The equipment can also monitor the performance of the SHDSL line. The range covers three models, the Wolverine DDW-142-EX, Wolverine DDW-225-EX & Wolverine DDW-226-EX.

The Wolverine DDW-142-EX Industrial Ethernet SHDSL Extender comprises a DIN Rail mounted metallic enclosure containing a power supply, CPU and SHDSL boards. The equipment is supplied via dual power supply terminals which support redundancy power connection to the equipment. The equipment provides two SHDSL, two 10/100Base Ethernet TX and a RS-232 Serial ports on the front of the equipment for network connections.

The Wolverine DDW-225-EX and DDW-226-EX Industrial Ethernet SHDSL Extenders comprise a larger metallic enclosure that can be either DIN Rail or wall mounted, containing a power supply, CPU and SHDSL boards interconnected via a backplane board. The equipment is supplied via dual power supply terminals which support redundancy power connection to the equipment. Both variants of the equipment provide two SHDSL and four 10/100Base Ethernet TX ports with the DDW-226-EX variant having an additional RS-232 port all located on the front of the equipment for network connections.

All variants of the equipment have a digital I/O interface to allow the equipment's status to be reported to external equipment and external events to be monitored, a console port to allow connection to a Command Line Interface (CLI) and a USB port, both for service and upgrading of the equipment.

Input Parameters:

Power Connector: +DC1, +DC2 & -COM

Working Voltage Range = 24V to 48V d.c.

I/O Connector: 'Status +'/Relay output +' & 'Status -'/Relay output -' and 'Digital in +' and 'Digital in -'

Maximum I/P Voltage = 60V 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.