

1 **TYPE EXAMINATION CERTIFICATE**

2 **Equipment Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**

3 Type Examination Certificate Number: **Baseefa14ATEX0294X**

4 Equipment: **EDW-100 Ex & EDW-120 Ex Serial Adapters**

5 Manufacturer: **Westermo Teleindustri AB**

6 Address: **SE-640 40 Stora Sundby, Sweden**

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Baseefa certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment of Category 3 intended for use in potentially explosive atmospheres given in Annex II to European Union Directive 94/9/EC of 23 March 1994.

The examination and test results are recorded in confidential Report No. **GB/BAS/ExTR14.0270/00**

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0: 2012 EN 60079-15: 2010

except in respect of those requirements listed at item 18 of the Schedule.

10 If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

11 This TYPE EXAMINATION CERTIFICATE relates only to the design of the specified equipment and not to specific items of equipment subsequently manufactured.

12 The marking of the equipment shall include the following :

⊕ II 3G Ex nA IIC T4 Gc (-25°C ≤ T_a ≤ +70°C)

Baseefa Customer Reference No. **6934**

Project File No. **14/0440**

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SGS Baseefa Limited

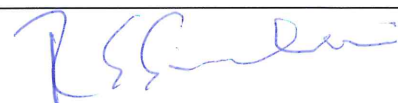
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R S SINCLAIR

GENERAL MANAGER

On behalf of SGS Baseefa Limited

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Schedule

14

Certificate Number Baseefa14ATEX0294X

15 Description of Equipment

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.

16 Report Number

GB/BAS/ExTR14.0270/00

17 Specific Conditions of Use

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 EN 60079-0 and EN 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.

18 Essential Health and Safety Requirements

All relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
3616-5020-UE-03	1 of 1	03	2014-11-25	EDW-100-Ex
5003-3020-B-1	1 to 3	2	2008-12-19	EDW-100SE
5003-3020-C-02	1 to 4	2	2008-12-19	Circuit Diagram EDW-100SE Board
2010-3551-H	1 of 1	2	2008-12-19	EDW-100 SE
1212-1403-UP-01	1 of 1	01	2014-11-14	Label EDW-100 EX
3616-5010-UE-03	1 of 1	03	2014-11-25	EDW-120-EX
5003-3010-B-1	1 to 3	2	2008-12-19	EDW-120
5003-3010-C-02	1 to 4	2	2008-12-19	Circuit Diagram EDW-120 Board
2010-3431-H	1 of 1	2	2008-12-19	EDW-120 SE
1212-1404-UP-01	1 of 1	01	2014-11-14	Label EDW-120 EX

