

must be downloaded to the instrument where they are required for the correct calculation of the metal loss and temperature.

Each CEION probe is supplied with a standard configuration module that is plugged into the configuration port on the instrument. This module sets up the unit to read the CEION probe that it was supplied with. If a new probe has been purchased it requires a custom set-up and the replacement module will have been supplied with the probe. Remove the existing module and replace it with the new item before connecting the power supply. Toggling the power supply will cause the unit to re-read the module parameters and set up accordingly.





For information typical calibration constants for a probe serial number XXXXX are:
003486:525:1188:0000:0100:00500:1000:175:


Notice	Always record the serial number of the probe installed at each location and keep the information with the Probe Certificate in a safe place.
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For technical support on this product contact our support manager (support@cormon.com) Phone 00+44 (0)1903 854800 Fax 00 +44 (0)1903 854800

5. INTRINSIC SAFETY CERTIFICATION & LABELS

For Cormon address block see front page of manual

 CEION® INTRINSICALLY SAFE TRANSMITTER UNIT Advanced Metal Loss Measurement Technology					
Cormon Limited Corrosion Monitor Model : CEI	WARNING POSSIBLE ELECTROSTATIC RISK DO NOT CHARGE BY RUBBING DO NOT CLEAN WITH SOLVENT				
<table border="1"> <tr> <td>Serial number: -</td> <td></td> </tr> <tr> <td>Year:</td> <td>20</td> </tr> </table>	Serial number: -		Year:	20	
Serial number: -					
Year:	20				
	CORMON LTD <table border="1" style="width: 100px; height: 30px;"></table> <div style="display: flex; justify-content: space-between;"> <div> EEx ia IIC T4 (Tamb=-40 to 50°C) CE 0359  IIIG ITS 03 ATEX 21261X </div>  </div>				

cormon	
PC INTERFACE UNIT	
MODEL DCU ACC PCI	
Serial number: –	
Year:	20
[EE _x ia] IIC (T _{amb} = 50°C)	CE 0359  II(1)G ITS 03 ATEX 21260

ITS Intertek Testing Services



1. EC-TYPE EXAMINATION CERTIFICATE

2. **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC**
3. EC-Type Examination Certificate Number: ITS03ATEX21261X
4. Equipment or Protective System: CORROSION MONITOR MODEL NO. CEI
5. Manufacturer: CORMON LIMITED
6. Address: Lancing, BN15 8TU

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

8. The ITS Testing and Certification Limited, notified body number 0359 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report Number:
ITS Report Ref 03010125 Issue 1, dated June 2003

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 50014:1997+ Amds 1 & 2, EN 50020:2002 and EN 50284:1999
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 or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

11. This EC Type Examination Certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12. The marking of the equipment or protective system shall include the following:-



II 1 G, EEx ia IIC T4 (Tamb= - 40°C to + 50°C)

ITS Testing & Certification Limited
ITS House, Cleeve Road, Leatherhead, Surrey, KT22 7SB
Tel: + 44 (0)1372 370900 Fax: +44 (0)1372 370977
<http://www.etlsemko.com/uk>
Registered No 3272281 Registered Office: 25 Savile Row London W1X 1AA

R M Adams
Deputy Certification Manager
27 June 2003

This certificate may only be reproduced in its entirety and without any change, schedule included.

Sheet 1 of 4

ITS Intertek Testing Services

13. Schedule

14. EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS03ATEX21261X

15. Description of Equipment or Protective System.

Corrosion Monitor Model No. CEI is a field-mounted apparatus designed to monitor and transmit data representing the corrosion or metal loss of a sensor (Corrosion Probe) inserted into the process environment.

The Corrosion Monitor Model No. CEI comprises of electronic circuits arranged on two printed circuit boards housed within a plastic enclosure and a Corrosion Probe.

The Corrosion Probe consists of a sensing circuit and an optional memory board all housed within a metallic enclosure.

The enclosures provide a Degree of Protection of IP20.

The Corrosion Monitor Model No. CEI is fitted with an integral cable for connection to the Corrosion Probe.

Intrinsic safety is assured by limitation of voltage, current and power, limitation of capacitance, suppression of inductance at the supply and signal output terminals, infallible resistor and infallible segregation.

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Registered No 3272281 Registered Office: 25 Savile Row London W1X 1AA

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Sheet 2 of 4

ITS Intertek Testing Services

13. Schedule

14. EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS03ATEX21261X

15. Description of Equipment or Protective System.

The maximum input parameters are:

Supply (J7)

$U_i = 28 \text{ V dc}$
 $I_i = 93 \text{ mA dc}$
 $P_i = 0.66 \text{ W}$
 $C_i = 0$
 $L_i = 0$

The maximum output parameters at signal output and Corrosion Probe terminals are:

Signal Output (J8)

$U_o = 7.2 \text{ V dc}$
 $I_o = 93 \text{ mA dc}$
 $P_o = 0.54 \text{ W}$
 $C_i = 12.1 \mu\text{F}$
 $L_i = 0$

Corrosion Probe (J3/J5/J6)

$U_o = 7.2 \text{ V dc}$
 $I_o = 93 \text{ mA dc}$
 $P_o = 0.54 \text{ W}$
 $C_i = 12.1 \mu\text{F}$ (including capacitance in Corrosion Probe)
 $L_i = 3.7 \text{ mH}$

16. Report No. ITS Report Ref 03010125 Issue 1.

17. SPECIAL CONDITIONS FOR SAFE USE

1. The Corrosion Probe is not capable of withstanding the 500V r.m.s. electric strength test as required by Clause 6.4.12 of EN 50020. This must be taken into account when installing the Probe
2. The element of the Corrosion Probe must be replaced when the "end of life resistance" is reached.

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Sheet 3 of 4

ITS Intertek Testing Services

13. Schedule

14. EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS03ATEX21261X

18. Essential Health and Safety Requirements

The relevant EHSR's that have not been addressed by the standards listed in this certificate have been identified and assessed in ITS Report Ref ITS Report Ref 03010125 Issue 1, dated June 2003

19. DRAWINGS




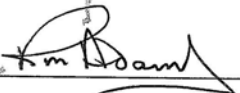
Number	Issue	Date	Description
6000 GA 00	D	23.06.99	General Assembly
6000 PL 00	A	10.12.98	Parts List
6139 BD 00	C	23.06.99	Corrosion Probe
6332 DE 00*	B	19.06.03	Certification Label
6001 CD 00, Sheets 1 to 5	D	28.04.99	Module Schematic
6001 PL 00, Sheets 1 to 6	D	28.04.99	Module Parts List
6001 AW 00, Sheets 1 to 7	A	26.05.99	Module Artwork
6002 CD 00	C	28.04.99	Base Board Schematic
6002 PL 00, Sheets 1 to 3	E	04.06.99	Base Board Parts List
6002 AW 00, Sheets 1 to 4	A	26.05.99	Base Board Artwork
6034 CD 00	A	12.02.99	Probe Memory Schematic
6034 PL 00	A	12.02.99	Probe Memory Parts List
6036 DE 00	A	16.02.99	Transformer Specification
6035 DE 00	A	16.02.99	Smoothing Choke

The above drawings, except certification drawing marked *, are held on Certificate BAS No Ex 99E2087X.

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Sheet 4 of 4

					
SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE					
Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC					
Supplementary EC-Type Examination Certificate Number: ITS03ATEX21261X/1					
Equipment or Protective System: CORROSION MONITOR MODEL NO. CEI					
Manufacturer: CORMON LIMITED					
Address: Lancing, BN15 8TU					
This supplementary certificate extends EC-Type Examination Certificate Number ITS03ATEX21261X to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said Certificate but having variations specified in the Schedule attached to this certificate and the documents therein referred to.					
Intertek Report Ref 03010896 Issue 1, dated February 2004					
This Supplementary Certificate shall be held with the original Certificate					
					
R M Adams Certification Manager 6 February 2004					
Intertek Testing & Certification Limited Intertek House, Cleeve Road, Leatherhead, Surrey, KT22 7SB Tel: + 44 (0) 1372 370900 Fax: +44 (0) 1372 370977 http://www.uk.intertek-etlsemko.com Registered No 3272281 Registered Office: 25 Savile Row London W1X 1AA					
This Certificate is the property of Intertek Testing and Certification Ltd and is subject to Intertek Testing and Certification Conditions for Granting Certification.					
Sheet 1 of 3					

Intertek ETL SEMKO

Schedule

SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS03ATEX21261X/1

VARIATION ONE

Description of the Variation to the Equipment or Protective System.

To permit the following changes:

- a) Optionally, the probe memory printed circuit board may be placed in a separate device known as a configuration module.
- b) Addition of a port on the CEI housing to allow the configuration module to be plugged in.
- c) Update drawings.
- d) Alternatively the unit may be identified as a Corrosion Monitor Model No. CEI DCU2

The above changes do not impair intrinsic safety.

Report No.

Intertek Report Ref 03010896 Issue 1, dated February 2004

SPECIAL CONDITIONS FOR SAFE USE

None

Essential Health and Safety Requirements

See original certificate

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Intertek House, Cleeve Road, Leatherhead, Surrey, KT22 7SB
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Schedule

SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS03ATEX21261X/1

DRAWINGS

Number	Issue	Date	Description
6000 GA 00	E	24.06.03	General Assembly
6000 PL 00	B	24.06.03	Parts List
6139 BD 00*	E	25.09.03	Corrosion Probe
6332 DE 01	A	24.06.03	Certification Label
6034 PL 00	B	24.06.03	Probe Memory Parts List
8224 GA 00	A	24.06.03	Configuration Module

The drawing marked * is common to and held with Certificate No. ITS03ATEX21262/1

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Sheet 3 of 3

		
		Industrial
1.	SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE	
2.	Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC	
3.	Supplementary EC-Type Examination Certificate Number: ITS03ATEX21261X/2	
4.	Equipment or Protective System: CORROSION MONITOR MODEL NO. CEI	
5.	Manufacturer:	CORMON LIMITED
6.	Address:	Lancing, BN15 8TU
7.	This supplementary certificate extends EC-Type Examination Certificate Number ITS03ATEX21261X to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said Certificate but having variations specified in the Schedule attached to this certificate and the documents therein referred to.	
Intertek Report Ref 06018912B Issue 1, dated February 2006		
This Supplementary Certificate shall be held with the original Certificate		
		
A T Austin Head of Department 17 March 2006		
 Intertek Testing & Certification Limited Intertek House, Cleeve Road, Leatherhead, Surrey, KT22 7SB Tel: + 44 (0) 1372 370900 Fax: +44 (0) 1372 370977 http://www.etlsemko.com/uk Registered No 3272281 Registered Office: 25 Savile Row London W1X 1AA		
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Sheet 1 of 2		

<div><div>Intertek</div><div>Industrial</div></div> <div>Schedule SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS03ATEX21261X/2</div> <div>VARIATION ONE Description of the Variation to the Equipment or Protective System. To permit the following change: a) Change to microprocessor type. The above change does not impair intrinsic safety. Report No. Intertek Report Ref 06018912B Issue 1 SPECIAL CONDITIONS FOR SAFE USE None Essential Health and Safety Requirements See original certificate DRAWINGS<table><thead><tr><th>Number</th><th>Issue</th><th>Date</th><th>Description</th></tr></thead><tbody><tr><td>6001 PL 00 Sheets 1 to 6</td><td>G</td><td>23/12/05</td><td>Corrosion Monitor Module</td></tr></tbody></table></div> <div><div>Intertek Testing & Certification Limited Intertek House, Cleeve Road, Leatherhead, Surrey, KT22 7SB Tel: + 44 (0) 1372 370900 Fax: +44 (0) 1372 370977 http://www.etlsemko.com/uk Registered No 3272281 Registered Office: 25 Savile Row London W1X 1AA</div><div><small>This Certificate is the property of Intertek Testing and Certification Ltd and is subject to Intertek Testing and Certification Conditions for Granting Certification.</small></div></div> <div>Sheet 2 of 2</div>				Number	Issue	Date	Description	6001 PL 00 Sheets 1 to 6	G	23/12/05	Corrosion Monitor Module
Number	Issue	Date	Description								
6001 PL 00 Sheets 1 to 6	G	23/12/05	Corrosion Monitor Module								

Installation & Operation Manual-19" 2U Rack Mounted
7 Channel DCL with Modbus Output

CORR SCIENCE INC
P/O 2010-72
Cormon Reference: SON 11641
Date: June 2010