

PRODUCT CONFORMITY CERTIFICATE

This is to certify that the

ReportLoq

manufactured by:

Olicem ApS

Klostermarken 6
DK-9550 Mariager
Denmark

has been assessed by Sira Certification Service
and for the conditions stated on this certificate complies with:

**MCERTS Performance Standards for Environmental Data Management Software,
Version 4 (December 2017)
in respect of;**

- Part A – Generic Software Quality**
- Part B – Data Management General Aspects**
- Part C1 – CEMS Data Management Applications – Generic Requirements**
- Part C2 – CEMS Data Management Applications – EN14181 Requirements**

Project number: 70034004/80063178
Certificate number: Sira MC150287/02
Initial certification: 17 December 2015
This certificate issued: 26 November 2020
Renewal date: 16 December 2025



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Environmental Team Manager

MCERTS is operated on behalf of the Environment Agency by

Sira Certification Service



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Certificate contents

Approved site application 2
 Basis of certification..... 2
 Product certified 2
 Certified performance 4
 Description..... 5
 General notes..... 5

Approved site application

Any potential user of the certified software should:

- 1) Ensure that it is suitable for the platform on which it will be installed (if necessary in consultation with the software producer).
- 2) Ensure that the selection and operation of the software is appropriate to the application.

Basis of certification

This certification is based on the following Test Report(s) and on Sira's assessment and ongoing surveillance of the product and the manufacturing process:

- Sira report ref: R70034004 ReportLoq Environmental Monitoring Software dated 17th November 2015
- Olicem MCERTS Surveillance Audit Report dated 9th May 2019.

Product certified

Product	Version	Function
ReportLoq Environmental Monitoring Software	2.0	Later minor changes to the certified version are permitted in accordance with the conditions of the standard.
ReportLoq Site-Calculator	2.2	Later minor changes to the certified version are permitted in accordance with the conditions of the standard.
MSSQLLogger	2.1	Later minor changes to the certified version are permitted in accordance with the conditions of the standard.

Certificate number: Sira MC150287/02
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The certified software includes the following modules and components:

Deliverable	Function	Host
PLC software	Raw data acquisition	Beckhoff PLC
MSSQLLogger 2.1	Data logging and transfer to the database	Beckhoff PLC
Site Calculator 2.2	Environmental reporting on local server	Windows Server 2016
ReportLoq Website 2.0	Environmental reporting using www.reportloq.com	Windows Server 2012
Service Applications 2.0	Background calculations	Windows Server 2012

Software Element	Version	Description	Location(s)
cache	2.0.3	Caches objects for a period of time for efficiency reasons.	Olicem servers Customer Site
fls	1.72	Calculation module implementing a common structure for EN14181 calculations.	Olicem servers Customer Site
jdbcrealm	1.6	Customized Security project which handles user roles. It provides security protection to the application.	Olicem servers
json-model	1.19	JSON (JavaScript Object Notation) handles the Java Persistence Model used to interface to Reportloq's MongoDB database.	Olicem servers Customer Site
reportloq	2.0	Implements www.reportloq.com	Olicem servers
service	2.0	Olicem background services. E.g. Data Retrieval and calculations.	Olicem servers
site	2.2	A .jar file containing the customer application.	Customer Site

Software Modifications

In the event of a major release the developer shall provide brief supporting evidence to the Certification Body who will advise whether recertification is necessary.

Certificate number: Sira MC150287/02
This certificate issued: 26 November 2020

Certified performance

The application is able to perform the following tasks:

- Gathers and stores data and meta-data every 10 seconds.
- Data retention policy for the controller is 30 days. The local server stores data half a year. The ReportLoq web-site stores data accordingly to legal requirements.
- Validates and calculates collected emission data accordingly to legal requirements.
- QAL correction functionality accordingly to EN14181.
- Offers commenting functions for exceedances, alarms and events.
- Trending functionality for raw data as well as STA and LTA with meta-data explaining the circumstances the measurement and calculation is subject to.
- Contains reports accordingly to legal requirements.
- Export functionality offering calculated and raw data to be exported to CSV files.
- Warns operators about upcoming exceedances by using preventive calculations.
- Supports historic changes to regulations with visible revision trail.
- Substitution ability on historic data and meta-data with full recalculation.
- Stores full revision trail during data substitution with recovery option.
- Password based browser login for remote monitoring of CEMS, QAL, trend, reporting, data export, exceedances and alarms
- Safe data transmission from site to Olicem datacentre using SSL

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Description

ReportLoq is a web-based reporting solution. Using a web interface, emission data can easily be displayed in the control room, in the office or at home from a PC, tablet or mobile.

ReportLoq consist of an on-site controller and an on-site server collecting all environmental data from the analysis equipment as raw values.

Data can be:

- a) Calculated using the on-site server using Core and Pro licenses in a stand-alone configuration
- b) Calculated on www.reportloq.com using the Enterprise license in a cloud setup.

Enterprise customers have all raw values transferred via a secure internet connection to the Olicem datacenter. Should an internet connection break down occur between the on-site server and the datacenter, the collection of data will continue on the on-site server, which has capacity for up to five years data storage. For extra security in the ReportLoq system, the on-site controller additionally stores data for up to 30 days. After re-establishment of internet connection all missing raw values will automatically be uploaded to Olicem's datacenter where all data will be securely stored for minimum 5 years.

The web-based reporting system allows users to collect emission data every 10 seconds for environmental reporting purpose. Measurements are aggregated in STA (Short Term Average) and LTA (Long Term Average) calculations, using QAL2, QAL3, normalization and confidence intervals. ReportLoq provides functionality to trend, view comment and export raw and aggregated data upon request, as well as QAL functionality as described in EN14181.

The on-site controller is able to connect to CEMS equipment using hardwire or BUS technology.

General notes

1. This certificate is based upon the equipment tested. The manufacturer is responsible for ensuring that on-going production complies with the standard(s) and performance criteria defined in this certificate. The manufacturer is required to maintain an approved quality management system controlling the manufacture of the certified product. Both the product and the quality management system shall be subject to regular surveillance according to 'Regulations applicable to the holders of Sira certificates'.
2. The design of the product certified is defined in the Sira Design Schedule V00 for certificate No Sira MC150287/02.
3. If a certified product is found not to comply, Sira should be notified immediately at the address shown on this certificate.
4. The certification marks that can be applied to the product or used in publicity material are defined in 'Regulations applicable to the holders of Sira certificates'.
5. This document remains the property of Sira and shall be returned if requested by Sira.

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