



Certificate of Compliance

Certificate: 70220753 **Master Contract:** 205557
Project: 80231048 **Date Issued:** 2024-11-01
Issued to: Endress+Hauser Conducta GmbH & Co. KG
Dieselstraße 24
Gerlingen, Baden-Württemberg 70839
Germany
Attention: Uwe Roessiger

The products listed below are eligible to bear the CSA Mark shown with adjacent indicator 'US'



Issued by: Anil Sodhi
Anil Sodhi, P. Eng

PRODUCTS

Class 2258 83 PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-Incendive Systems-For Hazardous Locations-
Certified to U.S. Standards

Class I, Division 2, Groups A, B, C and D T6; IP67/IP68;

• Oxymax COS61D-aa-bb-c-d+ee-ff-gg-hh oxygen sensor for liquid analysis, connected to transmitter CM44x(R) with a maximum cable length of 100m with type ITC/PLTC cable; temperature code, $-20^{\circ}\text{C} \leq T_a \leq 60^{\circ}\text{C}$; rated 24 Vdc, 15mA;

Order Codes:

COS61D-aa-bb-c-d+ee-ff-gg-hh

aa	CJ	Approval: CSA US NI Cl. 1 Div. 2 GP A-D T6
bb	A1	Application/ Measuring Range (not ex-relevant) Oxygen 0... 20 mg/l
	Y9	Special version
c	A	Sensor adaption (not ex-relevant) Fixed Cable; crimp sleeves



Certificate: 70220753

Master Contract: 205557

Project: 80231048

Date Issued: 2024-11-01

	B	Fixed Cable; M12 plug
	Y	Special version
d		Cable length (not ex-relevant)
	2	3 m
	3	7 m
	4	15 m
	7 m length
	8 ft length
	9	Special construction
ee		Accessories, mounted (not ex-relevant)
	IA	Air cleaning; 6 or 8 mm
	IB	Air cleaning; 6.35 mm (1/4'')
	I9	Special construction
ff		Test, certificate, declaration (not ex-relevant)
	K9	Special construction
gg		Sealing material (not ex-relevant)
	T9	Special construction
hh		Marking (not ex-relevant)
	Z1	Measuring site (TAG)

Note: The final installation shall assure that the metallic sensor body is bonded to ground, as necessary.

Conditions of Acceptability:

1. Warnings and installation instructions shall be followed as stated in control drawing 211050778.
2. The digital sensors with cable (Type ITC/PLTC maximum cable length 100m) shall be connected to the CM44x(R) Liquiline transmitter as per instructions in the control drawing 211050778.
3. Installation of fixed cable sensors shall be as per document BA00460CEN

APPLICABLE REQUIREMENTS

UL 61010-1 (Third Edition) - UL Standard for Safety for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 1: General Requirements

UL 121201:2017 - Ninth Edition - UL Standard for Safety Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations



Certificate: 70220753

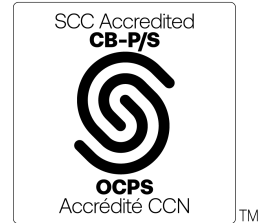
Project: 80231048

Master Contract: 205557

Date Issued: 2024-11-01

Notes:

Products certified under Class(es) C225883 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). www.scc.ca





Supplement to Certificate of Compliance

Certificate: 70220753

Master Contract: 205557

*The products listed, including the latest revision described below,
are eligible to be marked in accordance with the referenced Certificate.*

Product Certification History

Project	Date	Description
80231048	2024-11-01	The scope of this project is to address the editorial findings recorded in FIR (FC# 269534) dated June 10, 2024
70220753	2020-11-09	Original Certification of new Oxymax sensor model COS61D for Class I Div. 2, Grps ABCD, T6 to be used with Liquiline transmitter CM44x(R).

Hazardous location
NI Class I Division 2,
Groups A, B, C, D T6

Hazardous location
NI Class I Division 2,
Groups A, B, C, D T4A

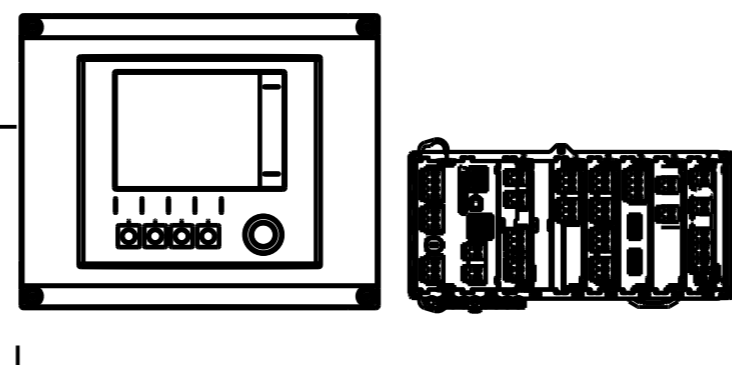
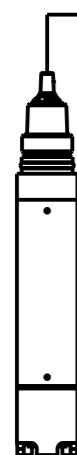
Non hazardous location

For USA: Cable type ITC

Measurement transmitter CM44x or CM44xR (x = 2, 4 or 8)

Install per NEC501

Sensor terminals
85-86 and 97-98



Conduit

Conduit

Conduit

Conduit

Power supply 100... 230 V AC or 24 V AC/DC

Relay 230 V AC or 24 V DC

Digital/ analog input/ output 0/4 mA... 20 mA
Communication (Ethernet/ Fieldbus/ RS485)

Fixed cable sensors with Memosens protocol,
max. cable length 100 m (330 ft), including,
but not limited to, the following sensor types:
CAS51D (Nitrate)
CUS51D (Turbidity)

For hazardous locations use Class I Div 2 approved and
labelled measurement transmitter CM44x or CM44xR
(x = 2, 4 or 8)

COS61D



Class I Division 2
Groups A-D, T6, Type IP67/IP68



WARNING: EXPLOSION HAZARD - SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR
USE IN CLASS I DIVISION 2.
WARNING: EXPLOSION HAZARD - DO NOT DISCONNECT WHILE THE CIRCUIT IS LIVE OR UNLESS
THE AREA IS FREE OF IGNITIBLE CONCENTRATIONS.

WARNING: EXPLOSION HAZARD - DO NOT SERVICE ELECTRICAL CONNECTIONS UNLESS POWER HAS
BEEN DISCONNECTED OR THE AREA IS KNOWN TO BE FREE OF IGNITIBLE CONCENTRATIONS OF
FLAMMABLE GASES OR VAPORS.

NOTE: THE FINAL INSTALLATION SHALL ASSURE THAT THE METALLIC SENSOR BODY IS BONDED TO GROUND; AS NECESSARY

<div>Endress+Hauser</div> <div>Endress+Hauser Conducta GmbH+Co. KG</div> <div>70839 Gerlingen, Germany</div>	Refer to protection notice ISO 16016 Classification internal		Scale 1:5	Tolerance -		
	Control Drawing COS61D CSA		Notif. no. 0	Designed 06.11.2019	BlochwitzS	
				Drawing chng. 04.01.2021	BLOCHWITZS	
			Number of changes 1 	Welding contr.		
				Approval contr.		
			Status Released	Pressure contr.		
			Released 04.01.2021	HOEHNET		
	Control Drawing COS61D CSA		No. of document 211050778	Version B	Doc. part 000	
	434199		Weight	Volume		
	Material -		SAP material no. 71094592	Format DIN A3	Sheet 1/1	