TÜVNORD

(1) # EU-Type-Examination Certificate

(2) Equipment and protective systems intended for use in potentially explosive atmospheres, **Directive 2014/34/EU**

(3) **Certificate Number** **TÜV CY 23 ATEX 0206895 X**

(4) for the equipment: Safety barrier CPT08320/A with Fuel Analysis Sensors CPT04923/*/*/***

(5) of the manufacturer: **COPTRON SOCIETA' COOPERATIVA**

(6) Address: Via industria, 6
23017 Morbegno (SO)- ITALY

Order number: 0206895

Date of issue: 2024-03-08

(7) The design of this equipment or protective system and any acceptable variation thereto are specified in the schedule to this EU-Type-Examination Certificate and the documents therein referred to.

(8) TÜV CYPRUS Ltd, notified body No. 2261 in accordance with Article 17 of the Council Directive of 2014/34/EU of February 26, 2014, 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 the confidential report No. 24 0206895.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN IEC 60079-0:2018 **EN 60079-11:2012** **EN 60079-26:2015**
EN 60079-25:2010/AC 2013

(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 EU-Type-Examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment which are not covered by this certificate.

(12) The marking of the equipment or protective system must include the following:

II 1 (1) G Ex ia [Ex ia] IIA T4 Ga

Accredited by CYS-CYSAB
Certificate No. C 004-2

TÜV CYPRUS Ltd (TUV NORD Group),

The head of the notified body,

D. Demosthenous

notified body
TÜV CYPRUS
TÜV NORD GROUP
2261

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(13) **SCHEDULE**

(14) **EU-Type-Examination Certificate No. TÜV CY 23 ATEX 0206895 X**

(15) Description of equipment

The equipment is a fuel quality analysis system that consists of one to four fuel analysis sensors with code CPTO4923/*/*/*** and an intrinsically safe barrier (associated device) with code CPTO8320/A, specifically designed for the connection of the sensors.

The CPTO4923 fuel analysis sensors are equipped with a vibrating fork (Tuning Fork) which directly and simultaneously measures the temperature, viscosity, dielectric constant and density of the fuel. Thanks to the use of this technology, the sensor determines the quality, conditions and contaminants of the analyzed product.

The intrinsically safe barrier, that shall be installed in safe area, allows the connection of up to 4 sensors that communicate using a serial line CAN BUS.

The link between sensors and the barrier is made with a 4 poles cable integrated with the sensors or supplied by the manufacturer.

The barrier makes the conversion of the protocol on a serial line RS485 for the transmission of the data to a control system.

Allowable ambient temperature range:
Tamb -20°C / +65°C

Type Key
Barrier CPTO8320/A

Sensors CPTO4923/*/*/***

where

Sensor	/Enclosure Type		/Sensor Cable Length (m)	/Sensor Body Length (cm)
CPT04923	1	IP20 with integrated cable	Max 9	Max 500
	2	IP68 with 4 pole connector		
	3	IP 68 with integrated cable		

Technical data:

CPTO8320/A Barrier
Um: 250V rms
Power Supply: 12 ÷ 24 Vdc

Warning Marking:
Warning: See Installation Instruction Document

Assessment of the intrinsically safe system:
System has been verified in compliance with EN 60079-25 and EN 60079-14.

(16) Test documents are listed in the test report No. 24 0206895

(17) Special conditions for safe use
1. Sensor cables shall be adequately protected against mechanical damage.
2. The use of a safety barrier other than the certified type CPTO8320/A is not allowed.
3. In case of wiring of the sensor with an additional cable see the safety instructions for cable characteristics and for the verification of the intrinsically safe system in compliance with EN 60079-25 and EN 60079-14.

(18) Essential Health and Safety Requirements
This certificate covers only the Essential Health and Safety Requirements related to the Directive 2014/34/EU.