

Kontram ATEX-CEMS

Unique Continuous Emission Monitoring System for ATEX Zone 1 areas in Petrochemical and Chemical industries

Kontram's ATEX-CEMS is enhanced Continuous Emission Monitoring System based on TÜV QAL1 certified MCA10-HWIR by Dr. Födisch Umweltmesstechnik AG.

The system has extractive sample conditioning consisting of ATEX-certified sample probe, sample line and measurement system with an intuitive touchscreen display.

By default the system is operated either in English or Finnish, but customer specific languages are also available.

Kontram has more than 30 years of experience with emission monitoring systems. After evaluating the QAL1 certified systems on the market we chose the most reliable analyzer to be integrated in our unique system. This allows us to achieve the highest possible quality with all the measurements.

In order to maximize the system performance, we have integrated our own IIoT-platform - Kontram OverSight™ - into the ATEX-CEMS. To gain full advantage of the modern technology we are constantly monitoring internal diagnostics and events of the system. Remote access is the key to support our customers all around the globe.



II 2G Ex pxb IIC T3 Gb

ATEX certified sample probe

ATEX certified sample line

Dr. Födisch MCA10 Hot wet NDIR analyzer

Peltier cooling reduces costs



We have been delivering our reliable emission monitoring systems for over 30 years

When you choose Kontram, you will get in addition to a top-quality equipment package:

- ✓ **Project design and documentation**
- ✓ **Readiness for remote support**
- ✓ **Factory Acceptance Tests**
- ✓ **Commissioning and training**
- ✓ **Comprehensive service packages**

For more information, please visit:

www.kontram.fi/en

Power requirements	1-phase 230 VAC 50/60 Hz, 1 kW + 120W/m sample line
Physical measures	800 x 1200 x 400 mm (W x H x D)
MCA10 system certified components	CO, NO, NO ₂ , N ₂ O, SO ₂ , HCl, NH ₃ , CH ₄ , O ₂ , H ₂ O, CO ₂ (TÜV) CO, NO, NO ₂ , N ₂ O, SO ₂ , HCl, NH ₃ , CH ₄ , HF, O ₂ , H ₂ O, CO ₂ (MCERTS)
Heated sample line(s)	up to 90 m, according to ATEX Zone and surface temperature needed
Sample probe	According to ATEX Zone and surface temperature needed Back-purge option available
Instrument air consumption	Approximately 1 m ³ /h for ejector and max. 5 l/s for purging the cabinet
Dew point range for instr. air	< -30 °C, oil and particulate free
Sample flow rate	3-6 l/min
Ambient temperature range	+ 15 - + 25 °C
Relative humidity	max. 90% (non-condensing)
Compliances	CE EN14181 EN 15267, based on QAL1 certified system
Protection level	IP4X
I/O	mA-signals for measurements, relay outputs for status
Interfaces	MODBUS TCP, others on request
Options	Extended sample line, Integrated dust measurement

We are one of the leading solution providers for environmental measurement technology in Finland

We deliver reliable and technologically innovative devices and assemblies to the Finnish industry and export in the fields of automation and measurement technology. Our goal is always to find and produce solutions for our customers that will enable to improve their profitability, ease their work, and continue to produce value for their own customers.

Our business is based on customer-oriented sales and on professional sales personnel, as well as on an efficient logistics environment. Our goal is always to develop long-term cooperation agreements with customers, principals and staff.

In addition to product sales, our extensive and professional technical service team helps our customers with spare parts, maintenance, commissioning, training, and project management.

Kontram's Quality Policy

Since 1998, Kontram Oy has been a quality-certified company and complies with the ISO9001 quality standard.

Our values Desire to Win, Open Communication, Reliable service and quality, Long term productivity and growth, Respect of people and their work.

Our mission is to be present in our customers' everyday life and together build the industrial future.