IN-LINE PROCESS ANALYZER · THERMAL CONDUCTIVITY

CENTEC TC ANALYZER

User friendly · waterproof · robust

One analyzer for the Centec thermal-conductivity sensor family. It complements NITROTEC TC and HYDROTEC TC and continuously measures N_2 or H_2 concentration and medium temperature in liquid and gas phase. Parameters can be adapted to the measuring conditions and operating requirements. The stainless-steel enclosure is designed for continuous process measurements in demanding applications.



CENTEC TC ANALYZER · IP65 STAINLESS

0.01 ppb	IP65	RS 232/485	4-20 mA
RESOLUTION	ENCLOSURE	DIGITAL	ANALOG

Features & Benefits

Easy installation & use

- Easy to install, process measurements in minutes.
- Function keys and menus on screen help to quickly configure the instrument.

Real-time display

- The LCD screen continuously displays the real time concentration and medium temperature.
- Units from 0.01 ppb to 100 ppm dissolved or 1.0 ppm to 100 % gaseous.
- Real time clock.

Pin-code protected

- Access levels are protected by a pin-code to prevent uncontrolled modifications of calibration and settings.

Easy sensor calibration

- The sensor calibration process is defined step by step by the software.

Configuration of alarms

- System alarms can be configured according to specified concentration levels.
- Alarm signals are transmitted through analog outputs.

Waterproof & robust

- Stainless steel construction, IP65 / Nema4X.
- Ideal for measurements in harsh conditions.

Applications

BEVERAGE · POWER & STEAM · PHARMA & CHEMICAL

For all Centec TC sensors (N_2, H_2) | In-line | Dissolved & gaseous applications | Beverage production | Power-steam industry | Pharmaceutical & chemical industries

Dimensions

WIDTH	HEIGHT	DEPTH	WEIGHT	ENCLOSURE
230 mm	180 mm	75 mm	3.0 kg	IP65 / Nema4X

Technical Specifications

Power	**85-230 VAC, 50/60 Hz**	Range dissolved	**N_2 0-350 ppm · H_2 0-2 ppm**
Power consumption	**Max 20 W**	Range gaseous	**N_2 0-20 bar · H_2 0-1.5 bar**
Operating conditions	**-5 °C to 50 °C**	Dissolved displayed units	**ppm, ppb, mg/l**
Enclosure	**Stainless steel, IP65 / Nema4X**	Dissolved resolution	**0.01 ppb**
Weight	**3.0 kg**	Gaseous displayed units	**%-ppm, kPa**
Dimensions	**230 × 180 × 75 mm**	Gaseous resolution	**0.01 ppm**
Displayed data	**Temperature, measurement, real time clock, membrane type**	Alarm outputs	**High/low or high/high-high relays, resistive load 125 VAC / 20 VDC**
Thermal cut-off	**Factory setting +40 °C / 140 °F, software-adjustable**	Digital outputs	**RS 232 / RS 485**
Calibration	**Single point air and direct calibration**	Analog outputs	**0-20 mA / 4-20 mA**
		Compatible sensors	**NITROTEC TC · HYDROTEC TC**

In Practice

Easy installation & use - the analyzer installs quickly and delivers process measurements within minutes. Its LCD continuously displays real-time concentration and medium temperature, with units from 0.01 ppb to 100 ppm dissolved or 1.0 ppm to 100 % gaseous. On-screen function keys and menus make configuration fast, and a real-time clock timestamps readings.

Alarms & connectivity - system alarms can be configured to specific concentration levels, with signals transmitted through the analog outputs. Digital (RS 232 / RS 485) and analog (0-20 / 4-20 mA) outputs integrate the analyzer into existing control systems. Secure & guided - access levels are protected by a pin-code to prevent uncontrolled changes to calibration and settings. The sensor calibration procedure is defined step by step by the software for repeatable results.

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