
ANALİTEK
ANALİZÖR SATIŞ ve SERVİS HİZMETLERİ
ANALİZÖR ve ANALİZÖR SİSTEMLERİ

HAKKIMIZDA

Online proses analizörleri ve gaz dedektörleri konusunda faliyet gösteren firmamız servis hizmetleri, danışmanlık ve mühendislik hizmetleri ile çözüm ortağınız olmayı amaç edinmiştir. Günümüz koşullarında üretimden maksimum verim elde edebilmek için otomasyon, üretim prosesinin ayrılmaz bir parçası olmuştur. İyi bir otomasyon da ancak yapılan iş hakkında sağlıklı bilgi elde edilebildiği takdirde mümkündür. Bu noktada devreye giren online proses analizörlerimiz ve gaz dedektörlerimiz üretim aşamasında sundukları hassas ve güvenilir ölçümler ile güvenliğin ve ürün kalitesinin güvencesi olmaktadır.

MİSYONUMUZ

Çalışmalarımızın aktif bir şekilde gelişmesiyle, misyonumuz şirketimizde önemli yer almaktadır. Müşterilerimizin beklentilerine en iyi şekilde karşılık verebilmenin ve bu beklentilerin sürekliliğini sağlayabilmenin gururunu yaşıyoruz.

VİZYONUMUZ

İyi bir hizmet, başarılı bir gelecek için çalışmaktayız. Alanımızda lider firma olmak ve bu hedefle sektörümüzdeki yerimizi güçlendirmeyi amaçlıyoruz.

TEMSİLCİLİKLERİMİZ

1. Process Analyzers:

2. Color Analyzer :

3. H_2 - TOC Analyzer :

4. Gas Sensors :

5. Sample Handling:

Analyzers Systems

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ENGINEERING

- Feasibility aspect
- Cost /benefit aspect
- Basic/ detailed engineering
- Budget planning

PRODUCTION, PROCUREMENT, DELIVERY

Sample conditioning systems Turn-key analyzer shelter

- On-site sample conditioning and fast loops
- Sample conditioning
- Analyzer shelters
  - Concrete, Glass- fibre reinforced plastic, steel, stainless steel, aluminium
  - Slop systems
  - Auxiliary and supply systems
- Cooling systems
  - Closed Loop Chiller
  - Wallmounted Air Con
  - HVAC
- Recovery systems
- Procurement engineering and procurement
  - Enquiry requisition, tender comparison
  - Preperation of documents ready for ordering
  - Placing of orders and purchasing
- Delivery

SERVICE

- Installation
  - Mounting
  - Supply and waste disposal
  - Data connection
- Commissioning
  - Connection
  - Functional testing
  - Calibration
  - Performance test
  - Instruction
  - Final documentation
- After sales service
  - Spare parts supply
  - Training courses
  - Maintenance contracts

INTERNATIONAL APPROVAL

- CENELEC, ATEX
- CSA, UL, FM
- Other on request

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Modular Gas Analyzer MGA-nano

Application

The Modular Gas Analyzer MGA-nano from BARTEC BENKE measures the concentrations, moisture content (H2O), hydrocarbon dew point temperature (HCDT) and hydrogen sulfide content (H2S) of process gases, natural gas and biogas. Whether the aim is to

- improve product quality
- control process units
- monitor trace contaminants
- measure the heating value

the individual setup of the different modules offers the possibility to create an applications specific analyzer.

Special Features

- Compact design and small footprint allow quick installation close to process
- The use of micro system technology leads to low cost of ownership as well as to short cycle time
- Significantly lower consumption of sample and utilities in comparison to classical technologies
- Turnkey analyzer system replaces multiple service and maintenance support management
- Calorific Values calculated according to ISO 6976 or ASTM D3588
- Easy to use via Human Machine Interface (HMI)
- Standalone package enables cost effective solution

Options

- System integration in weather proofed, air-conditioned cabinet for off-site installation
- Temperature-controlled gas bottle cabinet
- Sample Conditioning System for special applications
- Available communication interfaces:

- Modbus/RTU, Modbus/TCP
- Remote access via modem, ISDN, LAN, VPN

Features

- Micro-GC technology
- Modular concept:

Micro-GC
H2O measurement
HCDT measurement
H2S measurement

O2 measurement

- Compact design
- Low cost of ownership
- Short cycle time

Distillation Process Analyzer (DPA-4)

BARTEC BENKE

Application

The BARTEC BENKE Distillation Process Analyzer(DPA-4)is used for process control of blend composition such as all types of gasoline, feedstock for petrochemical processes (naphtha), jet fuels, fuel oils, similar petroleum products and liquid hydrocarbonds with a maximum final boiling point below its thermal decomposition.

Special Feaures

- The complete boiling curve is measured every cycle
- Measuring points of interest freely definable by software
- Optimized assembly- easy removal of complete flask
- Special software detecting the coking at the flask bottom
- Burette and receiver available in double- jacketed version for either heating or cooling
- Availble Communication Interfaces:
  - Modbus /RTU, Modbus/TCP
  - Access via modem, ISDN, LAN, VPN
- Special design for samples with higher viscosity and/or high pour points
- Failure diiagnosis and self monitoring
- Multi-stream capability
- Product specific parameters
- Optional calculated parameters

e.g. Cetane Index ASTM D 976, loss corrected results (percentage evaporated), Driveability Index

Norms and Standarts

- ASTM D 86
- EN ISO 3405
- IP 123

Typical Measurements

- Intial boiling point IBP
- Final boiling point FBP
- Any boiling point triggered by volume or temperature
- Percentage loss (FBP mandatory)
- Any combination of these

Method

100 ml of sample which is stirred with nitrogen is distilled in an open flask with pre-selected (programmable) heating time.

The evaporated sample passes through a temperature controlled water - cooled condenser.

The volume of condensate is measured in a graduated receiver by means of the density compensated differential pressure system at predetermined (programmable) recovery points (recovered vome).

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Cloud Point Process Analyzer (CPA-4)

Aplications

The BARTEC BENKE Cloud Point Process Analyzer(CPA-4) is a system of transparent of the cloud point(CP) of transparent mineral oil produckts. The CPA-4 operates online. It serves to monitör/maintain produckt quality for the in-spec production of mixtures such as diesel fuel and heating oil.

Special features

*Rugged designof measuring cell
*Optimized assembly-easy removal of complete cell
*Available communication interfaces:
-Modbus/RTU, Modbus/TCB
-Remote Access via modem, ISDN,LAN,VPN
*Failure diagnosis and self monitoring
*Additional cooling fort he control unit housing if required
*Multi-stream capability
*Product specific paramater-sets

Norms and Standarts

*ASTM D 2500
*DIN EN 23015
*ISO 3015
*IP 219

These norms and standarts set the operating limits for cloud point measurement for mineral oil products which are clear at a path lenghtof 40 mm (for IP and ASTM 1/2''=38 mm) and have cloud point below 49 ° C (120 ° F).

Method

The product sample is cooled under specified contidions and its turbidity is obseved. The temperature at which a cloud of paraffin crystals first appears, is measured asthe CP. The CPA-4 uses a photometric measurement principle.

Cold Filter Plugging Point Process Analyzer CFPP-4.2

BARTEC BENKE

Application

The BARTEC BENKE Cold Filter Plugging Point Process Analyzer (CFPP-4.2) is a system for the fully automatic determination of the cold fi lter plugging point (CFPP) of mineral oil products. The CFPP operates online.
It serves to monitor/maintain product quality for the in-spec production of mixtures such as diesel fuel and heating oil.

Special Features

- Visible function cycles by using a measuring cell made of plexiglass/glass
- Optimized assembly – easy removal of complete cell
- No paraffi n-adhesions on test mesh fi lter by fl ushing with preheated sample
- No correlative measurement, but exact reconstruction of cycles as described in
- ASTM D 6371
- Identical test mesh fi lter as used in laboratory method
- Possibility to shorten cycle time by:
- Switching between summer and winter setting
- Reading cloud point value (if available)
- Integrated failure diagnosis and self monitoring
- Available communication interfaces:
- Modbus /RTU, Modbus/TCP
- Remote Access via modem, ISDN, LAN, VPN

Norms and Standards

- ASTM D 6371
- DIN EN 116
- IP 309

Method

A sample of the product is cooled under specified conditions in a special cell. 45 ml of the sample is drawn under a controlled vacuum of 20 mbar through a standardized wire mesh filter. As the sample continues to be cooled at intervals of 1 K below the first temperature, testing is continued until the amount of wax crystals that have separeted out of solution is sufficient to stop or slow down the flow. If the time takne to run through the mesh filter exceeds 60 seconds, the temperature of the cell is recorded as the CFPP,,1". The sample is opened to atmosphere and if the sample does not flow completely back to cell through the mesh filter before the sample has cooled by a further 1 K, the temperature of the cell is recorded as the CFPP ,,2". The temperature at which the last filtration commenced is known as the CFPP.

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Flash Point Process Analyzer

Applications

The BARTEC BENKE Flash Point Process Analyzer (FPA-4) is a continuosly measuring analyzer, suited to measure the flash point (FP) of a liquid phase. It correlates with laboratory measurements. The FPA-4 operates online. It serves to monitor/maintain product quality for the in-spec production of mineral oil products.

Special Features

*Continuous measurement

*Multi-stream capability
*Integrated failure diagnosis and self monitoring
*No coking of measuring cell by catalytic reaction
*Scheduled automatic regeneration
*Available communication interfaces
-Modbus/RTU, Modbus/TCB
-Remote Access via modem, ISDN, LAN, VPN

Norms and Standarts

*ASTM D 56
*ASTM D 93
*DIN EN ISO 13736
*DIN EN ISO 2719
*IP 170
*IP 34
*DIN 51755

Princible of operation

The flash point temperature is defined as the lowest temperature at which application of an ignition source causes the vapor of a specimen of the sample to ignite under specified conditions of test.

The sample flows continuously through the measuring cell of the FPA-4. It is heated to the FP temperature, controlled by the FP-detector.

Freezing Point Process Analyzer(FRP-4)

BARTEC BENKE

Application

The BARTEC BENKE Freezing Point Process Analyzer (FRP-4) is a system fort he fully automatic determination of the freezing point (FR) of liquid, transparent mineral oil products. The FRP-4 operates online and is capable of handling up to two separate streams and a validation input. It server to monitör/maintain product quality fort he in-space production of aviation türbine fuels and aviation gasoline.

Special Features

*Cloud Point also determinable

*Rugged design of measuring cell
*Optimized assembly-easy removal of complete cell
*Integrated failure diagnosis and self monitoring
*Available communication interfaces:
-Modbus /RTU, Modbus /TCP
-Remote Access via modem, ISDN, LAN, VPN
*Multi stream capability

Norms and Standarts

*ASTM D 2386

*ASTM D 1015
*DIN ISO 3013
*IP 16
These norms and standarts cover the determination of the temperature below which solid hydrocarbon crystals may from in aviation turbine fuels and aviation gasoline.

Method

The product sample is cooled down under specified conditions and its turbidity is observed. The temperature at which a cloud of paraffin crystals first appears (known as cloud point) causes the FRP-4 stop the cooling.

The freezing point of the product sample is the temperature at which the solid hydrocarbon crystals, formed on cooling, completely disappear when the temperature of the sample is allowed to rise.

BARTEC BENKE

Pour Point Analyzer (PPA-4)

Application

The BARTEC BENKE Pour Point Process Analyzer(PPA-4)measures the pour point of petroleum products, hydrocarbons, chemical products and components.The PPA-4 operates online and fully automatic. Two layouts are available:

- Low temperature e.g. diesel and lightgas oil or similar products
- High temperature e.g. fuel, lube and bunker oils or smilar products others on request.

Special Features

- Real tilting measuring cell
- Rugged design of measuring cell
- Optimized assembly – easy removal of complete cell
- Integrated failure diagnosis and self monitoring
- Available communication interfaces:
  -Modbus /RTU, Modbus /TCP
  -Remote Access via modem, ISDN ,LAN, VPN

Norms and Standards

- ASTM D 97
- DIN ISO 3016
- IP 15

Method

The product sample is cooled under specified conditions.The pour point is the temperature at which the liquid sample becomes solid, detected in the tilting measuring cell of the PPA-4.

Vapor Pressure Process Analyzer (RVP-4)

BARTEC BENKE

Application

The BARTEC BENKE Vapor Pressure Process Analyzer (RVP-4) measures the vapor pressure of petroleum products, hydrocarbons, chemical products and components online and fully automatic. Three layouts are available.

Special Features

* Rugged design of measuring cell
* High precision and maximized performance due to optimized assembly of measuring cell
* Short reaction times due to integrated temperature control unit
* Dry measuring cell: Due to advanced temperature control capability oil bath has been avoided
* Wide range of inlet temperatures.
  No need for additional temperature pre-conditioning in most applications
* Also applicable for highly viscous samples
* Low sample consumption
* Re-cooling of peltier device (TEM) by either product or coolant
* Available communication interfaces:
- Modbus /RTU, Modbus/TCP
- Remote Access via modem , ISDN , LAN ,VPN
* Integrated failure diagnosis and self monitoring
* Heat tracing if required
* Additional cooling fort he control unit housing if required

Norms and Standarts

* ASTM D 5191
* DIN EN ISO 13016-1

Correlates with:

- ASTM D 4953 (DVP)
- ASTM D 323 (RVP)
- ASTM D 5482 (Mini Method Atmospheric)
- ASTM D 6377 (VPCR)
- ASTM D 1267 (LAP Gas)
- ASTM D 6897 (LPG Expansion

Method

The vapor pressure detection of the RVP-4 is based on the single expansion method. A piston is moved backwards drawing a sample of known volume into a temperature-controlled chamber. After sealing the chamber the volume is expanded by further piston movement until liquid and vapor volume have a ratio of 1:4. As soon as the pressure in the chamber has stabilized the measurement cycle is completed. From the measured air saturated vapor pressure various equivalents can be calculated, e.g RVPE (original method: ASTM D 323), DVPE (original method: ASTM D 4953)

BARTEC BENKE

Viscosity Process Analyzer (VISC-4)

Application

The BATEC BENKE Viscosity Process Analyzer (VISC-4) is a continuously kinematic viscosity measuring capillary analyzer suited to measure the viscosity of a product. The VISC-4 operates online. It serves to monitor / maintain product quality for the in-spec production of mineral oil products.

Three basic variants are available:

measuring temperature 20 to 60 ° C (68 to 160 ° F)
measuring temperature 41 to 60 ° C (106 to 140 ° F)
measuring temperature 61 to 100 ° C (142 to 212 ° F)
Each variant available with following measuring ranges:

viscosity 0.7 to 30 cSt
viscosity 10 to 500 cSt

Special Features

* Direct and continuous measurement of kinematic viscosity
* Direct comparison with laboratory results without any need for conversation
* Integral measurement of the density
* Calculation and display of the dynamic viscosity
* Temperature control and insulating system without oil bath / pumps
* Minimized maintenance requirements
* Compliance of the temperature stability (0.02 K) as defined in standard ASTM D 445
* Necessity of Hagenbach correction is elminated
* Multi-stream capability
* Automatic rinsing and draining facility
* Integrated failure diagnosis and self monitoring
* No atmospheric drain required, backpressure at analyzer outlet permitted
* Single-Phase Power Supply
* Wide range of acceptable sample-and coolant temperature at analyzer inlet
* Available communication interfaces:
- Modbus/RTU , Modbus/TCP (bidirectional)
- Remote Access via modem, ISDN, LAN, VPN

Norms and Standarts

* ASTM D 445
* DIN EN ISO 3104
* IP 71

Method

The value of kinematic viscosity results from the product of the measured passage time and device constant of the capillary: v=C* t. As viscosty is highly dependent on the temperature, the temperature of the liquid during the measurement has to be regulated precisely with minimum variation (0.02 K in accordance with ASTM D 445). For a continuous determination of the viscosity of a liquid during the production process the iquid is controlled in viscometers through a capillary. From the mass flow rate through the capillary and from the pressure drop over the lenght of the capillary, the current value of the kinematic viscosity of the liquid is ascertained by applying the law of Hagen-Poiseuille.

CLORA On-Line Chlorine Analysis in Crude, Water and Process Streams

BARTEC BENKE

Description

Chlorine monitoring in crude oil, process streams, water and effluent streams presents valuable insights in e.g. desalting and refining operations for corrosion management, environmental and process control purposes. The CLORA On-Line Analyzer present a breakthrough process analytical solution for quantification of total chlorine from 0.2 ppm up to 3000 ppm.

CLORA analyzers are not sensitive to sample temperature variation and do not requiere consumable gasses or liquids. Comprehensive data communications and diagnostics capabilities enable a maximum in uptime. The CLORA On-Line Analyzer is based on the same MWD XRF analytical platform as the CLORA Bench-Top Analyzer.

MWD XRF
Monochromatic Wavelength Dispersive X-Ray Fluorescence (MWD XRF)

Features

- LOD: 0.2 ppm in hydrocarbon matrices (at 300s), 0.3 ppm in aqueous streams (at 300s)
- Dynamic range: 0.2 ppm - 3000 ppm wt.
- No consumable liquids or gasses required
- No combustion or sample conversion: ensures safe and low maintenance operation
- Calibration is linear up to 3000 ppm and one calibration curve runs all hydrocarbon matrices
- Direct measurement in ppm wt.
- Continous and real time analysis

Ex protection type

Ex d ia [ia] px IIC T4

Class I Div 2 Groups B,C,D T4A

Ambient temperature

0 to 40°C, (32 to 104°F)

BARTEC BENKE

SINDIE® On-Line Sulfur Analysis in Petroleum Fuels

Description

The SINDIE® On-Line Analyzer is an industrial grade process sulfur analyzer with breakthrough detection capability for monitoring fuel streams as exacting as ultra low sulfur diesel and gasoline. This process analyzer presents the ultimate solution for Pipeline Terminals, where measurement speed, and reliability are essential. The breakthrough Monochromatic Wavelength Dispersive X-Ray Fluorescence technique of the SINDIE On-Line Analyzer offers a Limit Of Detection (LOD) of 0.6 ppm, and a dynamic range of 3000 ppm. This direct and non-destructive measurement technique does not require sample conversion or consumable gases and does not involve high temperature operations. The result: a robust process analyzer with minimal maintenance and unprecedented detection capability and measurement speed.

MWD XRF Technology

Monochromatic Wavelength Dispersive X-Ray Fluorescence (MWD XRF) analysis provides dramatically improved S/B over conventional XRF techniques, in a compact and simplified on-line configuration. The improved S/B is achieved by eliminating the scattering of bremsstrahlung from the xray source.

Features

- Total sulfur determination by MWD XRF
- Dynamic range from 0.6ppm to 3000 ppm in diesel, gasoline, naphtha and kerosene
- Measurement time: 30 seconds to 5 minutes, user programmable
- No consumables, gases or high temperature processes
- Extremely low maintenance
- Modular design for plug-and-go operation
- Also available in bench-top format

Ex protection type

Class 1, Division 1, Groups C-D, X Purge
Class 1, Division 2, Groups C-D, Z Purge

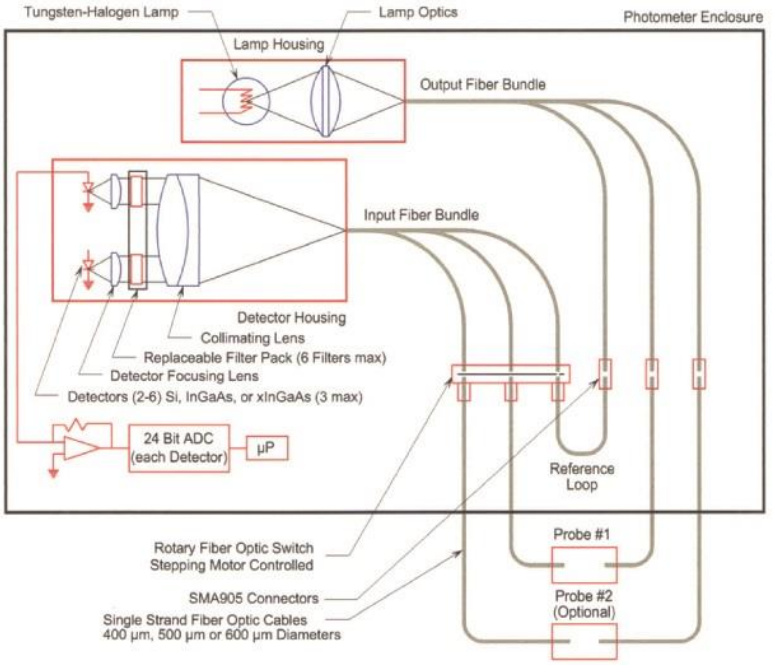
Ambient temperature
0 to 40°C (40 to 104°F)

Clearview db Dual-Beam Photometer

Guided Wave
Process Analytical Chemistry

GUIDED WAVE'S Clearview db photometer is the first commercially available ture dual- beam fitler photometer. Aprimary attraction of any photometric analyzer is its low cost. The compromise is usually performance drop in comparison to scanning spectrometers is lessened.

Thougt inexpensive , this photometer has a flexible configuration that meets many online analysis requirements for liquid and gas process streams.



Typical Applications

- Color _ASTM or saybolt in fuels
- OH number for polymer reaction end point
- Water content in fuel
- NaOH in water

ClearView db Benefits

- Stable dual-beam design decreases drift due to lamp aging- yielding long-term performance
- Several enclosure options means lowest installation costs
- Six filter positions make multi- parameter analysis a possibility
- Optional second sample channel for lower cost per sample point
- Compatible with a wide range of flow cells and insertion probes
- Low maintenance
- 5000 hour lamp(App 7 months)
- Dual-beam performance lengthens time between required probe cleanings

LFE
Process Analytical Instrumentation

Conthos 3

H2 gas analyzer based on the TCD measuring principle

The CONTHOS 3 state-of-the-art thermal conductivity gas-analyzer is an analytical instrument developed for online industrial use.

Some of the outstanding technical features of LFE's 3rd generation, microprocessor based gas-analyzer are:

Features

- high-temperature TC-detector (TCD), temperature controlled from 50°C to max. 180°C
- high corrosion-resistance of components in contact with medium
- unusually quick response time: typically ≤ 2 sec
- response highly independent of the gas flow
- unusually high long-term response stability
- intuitive user-interface based on NAMUR[1] -recommendations
- automatic self-diagnosis
- optional dynamic interference correction of up to 3 gases in conjunction with external, selective gas analyzers

The technical features of the unique CONTHOS 3 gas analyzer open up new areas of application for the thermal-conductivity principle, as well as help to eliminate weak points in present analysis problems.

Choosing the TCD-operating-temperature above that of the dew-point of the sample-gas can, in conjunction with external and internal heated gas lines (field housing only), alleviate the need for a sample-gas cooler.

First developed in 1979 the LFE - CONTHOS gas analyzer has proven itself in many years of continuous operation in such fields as:

- in the iron and steel industry
- in corrosive process gases in the chemical industry
- in all of the "classical" applications of the TCD-principle

TOC-800 Process TOC Analyzer

LFE
Process Analytical Instrumentation

The TOC-800 represents the newest generation of LFE's on-line TOC-analyzers. These have proven themselves with considerable success in use at many chemical plants as well as other important industrial companies since the beginning of the '80s. The LFE TOC-800 has evolved out of real-world applications as an on-line analyzer for the continuous TOC registration of highly- as well as low contaminated water. The demands placed on every component of such an on-line TOC-analyzer require special design solutions.

Features

- **continuous analysis with high carbon conversion level (at up to 1100°C):**

Only the high-temperature combustion method guarantees the nearly complete conversion of all organic carbon-compounds for the subsequent CO2-analysis.

- **extraordinarily stable measuring qualities:**

High demands are placed on the stability of the system-components. For this reason, LFE developed a low-maintenance, high-precision metering pump for its on-line TOC-analyzers. LFE's modified version of the BINOS® NDIR-photometer system is ideally suited because of it's excellent long-term stability and flexibility.

TOC-800

- **increased reliability:**

Increased long term reliability is obtained through the enclosure of all electronic components, protecting them from adverse environments. Separate cabinets for the analytical and the electronic components: The upper cabinet containing the NDIR-photometer as well as the majority of electrical components is purgable.

• **improved handling:** Maintenance and servicing of the instrument is facilitated through even better accessibility and handling.

• **outstanding reactor service-life:** The dimensioning of the analytical parameters allows maximum possible reactor service- life in combination with the fastest possible response time.

• **special detailed solutions:** The wetted components of the TOC-800 are composed of corrosion-resistant materials such as aluminum-oxide, glass and PTFE/PVDF.
The IR-photometer is fitted with an analysis cell specially developed by LFE. This cell is constructed out of glass with specially bonded sapphire windows. The extreme long-term stability of the NDIR-photometer is further enhanced by a patented gain controller.

• **intuitive User-Interface:** The TOC-800 is amazingly simple to operate despite its inherent complexity. The intuitive operation of the instrument is supported by a user-interface structure recommended by the NAMUR[1] commission.

• **automatic self-monitoring:** A wide range of system functions are continuously monitored. The intelligent self- monitoring places system failures into either of two categories: "maintenance required" or "instrument fault". The system status is available as floating relay-contacts and is displayed on the LC-display in plain text for easy diagnosis.

• **signal & status read-out:** The TOC-800 provides 4 individually-configurable, isolated 0(4)-20mA analog outputs. The available ranges (depending on instrument configuration) or even peripheral system values (e.g. reactor pressure) can be distributed over the 4 outputs. In addition various status signals are available via the digital interface. The instrument status, among other things can be read out using the 3 floating contacts provided for this purpose. The contacts provide the following general information (according to NAMUR [1] recommendation): Instrument fault / Maintenance required / Maintenance

Industrial Gas Detector

GASTRON

- Continuous detection of fiammable gases in explosion hazardous area with flame proof structure
- Self diagnosis function with built-in Microprocessor
- Detection gases from low to high concentration owing to various detection principle
- Stable qualiity and proved detection principle for service life
- Multi functions and high quality with low cost of ownership
- Built-in Back light LCD display
- Auto calibration and program setting with magnet bar and LCD display
- 2-stage alarm, 1-trouble display and relay contact output
- 4-20mA DC output signal
- Easy configuration of montitoring by RS - 485 Modbus (isolated) serial data communication (option)
- Calibration and maintenance by one – man

GTD-3000

- Continuous detection of combustible & CO2 gas in explosion hazardous area with flame proof structure
- State of art Infra red detection principle
- Long service life (more than 5 years)
- Low operation cost due to maintenance free
- Operation at no oxygen environment
- Rapid response time (with 10 secs)
- Easy configuration of monitoring system with RS-485 Modbus(isolated) Serial communication function

GIR-3000

Detcon Model Series 700 Gas Detection Sensors

Detcon Model Series 700 industrial gas detection sensors are a new generation of intelligent sensor modules that incorporate and integrate several leading edge improvements. The sensors are specifically designed for harsh and extreme locations. This new and superior level of environmental durability in sensor design includes an electropolished 316 stainless steel housing, multi-layered transient spike protection circuitry and 100% encapsulated electronics. The sensor electronics are completely protected and immune to water ingress and corrosion. The gas detector sensor elements are all plug-in components and can easily be replaced in the field. Operator interface is non-intrusive via a small handheld magnet. Configuration and routine calibration is intuitive and menu driven with fully scripted instructions. Sensor status is displayed on a built-in alphanumeric LED display. Model Series 700 intelligent sensor modules feature dual redundant outputs, a linear 4-20 milliamp analog signal and a Modbus RS-485 serial output.

Electrical Classification (FP, TP, IR Series)

Class I, Div 1, Groups B, C, D; Class I, Zone 1, Group IIB+H2 (ATEX)

Electrical Classification (DM, O2, PI Series)

Class I, Div 1, Groups A, B, C, D; Class I, Zone 1, Group IIC (ATEX)

Safety Approvals

CSA / NRTL (US OSHA Certified)

ATEX

Integration Solutions Include:

- Remote Control/Alarm Relay Module
- Hart Module
- Profibus Module
- Foundation Fieldbus Module
- Wireless Interface Module

"Intuitive Diagnostic Intelligence"
- Intuitive Non-intrusive Operator Interface
- Modular Plug & Play Sensors & Transmitters
- Simple Menu-driven Calibration & Programming
- Integral Sensor Fault Diagnostics

Two Models to Choose From
- Model 500: 4-20mA
- Model 600: 4-20mA, Modbus RTU, Alarm Relays

ÇALIŞMA ALANLARIMIZ

DANIŞMANLIK HİZMETLERİ
TEKNİK DANIŞMANLIK
İŞ PROGRAMI VE KONTROL
KALİTE KONTROL
EKİPMAN VE MALZEME SEÇİMİ
MALİYET VE BÜTÇE KONTROL
RAPORLAMA

SAHA KONTROLÜ & SAHA BAKIMI
KOORDİNASYON
KESİN HESAP
BAKIM VE DESTEK
KONTROL SİSTEM BÖLÜMÜ
HASSAS AYARLAR
DEVAM EDEN SAHA DESTEĞİ

PROJE YÖNETİMİ
TASARIM & PLANLAMA
RİSK DEĞERLENDİRMESİ
SAĞLIK & GÜVENLİK KURALLARI YÖNETİMİ
PROGRAMLAMA & ZAMANLAMA
İŞ GÜCÜ PLANLAMASI
MÜŞTERİ İLİŞKİSİ
İHALE DÖKÜMANI HAZIRLANMASI
MÜTEAHHİT SEÇİMİ
ZAMAN YÖNETİMİ

JAS-ANZ

ISO 9001:2008
Quality Management System Certificate

ISO 14001:2004
Environment Quality Management System Certificate

OHSAS 18001:2007
Management System Certificate

" ENERJİ'DE TASARRUF, GELECEK'TE GÜVENCE, ÇEVRE'DE DOĞALLIK "

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