LFE TOC-810

Product Highlights

Design concept

 The LFE TOC-810 was designed purely as a process TOC analyzer backed by over 30 years of experience.
 LFE process TOC analyzers are **not** modified laboratory instruments.

• Emphasis on high quality components, many of which are of LFE design, optimized for TOC use

 Emphasis on high reliability and low maintenance for lowest possible Total Cost of Ownership

 The design goal of ease of component access is seen in every aspect of the instrument

Easy maintenance

- Advantageous placement of components requiring periodic maintenance
- Easy access to components with minimal need for tools
- Design details facilitate access to- and replacement of HT reactor



Main cabinet

- Purgeable electronics cabinet section enhancing long term reliability in adverse environments
- · Wetted components in lower cabinet section

ASM unit

- Wall mounted panel for acidifier-/sparger-/multiplex components offers easy maintenance access
- Particularly "messy" components and those with somewhat higher maintenance requirements are situated outside of main cabinet.

Ease of operation

- Intuitive user interface
 The TOC-810 is surprisingly simple to operate despite its inherent complexity.
- Self-monitoring system with highly comprehensive diagnostics
 The system status is available as floating relay-contacts and is displayed on the LC-display in plain text with the date & time of occurrence.



Highly reliable and stable TOC analysis

Continuous analysis

 High-temperature combustion method at typically 950°C guaranteeing nearly 100% conversion of all organic carboncompounds for subsequent NDIR analysis of evolved CO₂

Extraordinarily stable measuring performance

- Low-maintenance, high-precision metering pump (LFE design)
- LFE's specially modified version of the premium BINOS[®] NDIRphotometer system (Emerson Process)
 Among other modifications the photometer is fitted with a corrosion resistant glass analysis cell specially developed by LFE.
- The extreme long-term stability of the NDIR-photometer is further enhanced by its unique gain controller.

Outstanding reactor service-life

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

Reactor furnace module

 The service life of the furnace has never been an issue with LFE's TOC analyzers due to the use of a low voltage heater (15V). This also enhances the safety aspects of the system.

Instrument Interface - Signal Output

- 2 (optionally expandable to 6) configurable, isolated 0(4)-20mA analog outputs.
 The configured measuring ranges or even peripheral system values (e.g. reactor pressure for monitoring the condition of the reactor tube for build-up of contaminants) can be distributed among the analog outputs.
- Digital outputs (instrument status; standard)
 3 relay contacts (Instrument Fault, Maintenance Required & Maintenance)
- Digital I/O (optional)
 - Digital inputs
 - 8 configurable inputs
 - Sample stream selection, calibration solution selection, initiation and cancellation of AutoCal Digital outputs
 - 7 configurable outputs (relay contacts) thresholds, feedback as to sample stream, calibration solution and AutoCal etc.

Optional VOC- (Volatile Organic Carbon) analysis package

- Simultaneous and continuous analysis of VOC level, independent of dissolved-/particulate carbon analysis
- Detailed engineering solutions enhancing stability and reliability
- Extremely low maintenance No requirement for CO₂-scrubber due to differential CO₂-analysis.
- Stabilization of analysis against varying background TIC levels.



Internet: www.LFE.de