

Thermo Scientific CB Omni-R

Technology Upgrade for Thermo Scientific
Online Analyzers

The Thermo Scientific™ CB Omni-R retrofit package brings your existing online analyzer up to today's modern technology standards with all new state of the art components. The result of implementing this unique upgrade package provides a refurbished and retrofitted system that enables valuable lifetime extension with modern components and technology.

Features & Benefits

- Avoids hardware and software obsolescence
- Eliminates air conditioner where applicable
- Reduces component count
- Extends product life cycle
- Improves hardware connectivity and networking
- Incorporates automatic belt load compensation (ABLC)
- Reduces repair time
- Allows flexible connectivity
- Upgrades electronics



The Thermo Scientific™ CB Omni™ technology retrofit (CB Omni-R) is a comprehensive upgrade solution for aging legacy online analyzers. By extending the life of the existing on-site analyzer, the CB Omni-R is the most cost-effective alternative to purchasing a new analyzer. The installation costs are minimized as the existing shielding and structural components are used as currently installed. The CB Omni-R replaces all electronics, software, computer hardware and detector systems.

The CB Omni-R package replaces outdated and potentially obsolete analog electronics

with modern, state-of-the-art and highly reliable digital electronics. The new CB Omni Random Pulse Processor 4 (RPP4), included in the upgrade, is the most advanced digital signal processor on the market today specifically designed by our scientists and engineers for PGNAA online analyzers.

With some systems, a major advantage of the upgrade is the elimination of the air conditioner on electronics enclosure. Also, the use of the latest industry standard components reduces the mean time to troubleshoot and repair. All CB Omni-R upgrades include the unique ABLC offering that ensures analyzer accuracy over a wide range of real-time variable flow rates and belt loads. CB Omni-R also provides for increased flexibility with respect to plant connectivity. Plant information such as flow rates, belt speeds and feeder rates can easily connect directly into the electronics enclosure.



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Electronics Enclosure

Material	NEMA 4 Rated Enclosure
Dimensions	762 mm x 610 mm x 305 mm (30.0 in x 24.0 in x 12.0 in)
Weight	45 kg (100 lbs)
Operating Temperature	-30°C to +50°C (-22°F to +122°F)
Electrical	230 VAC 50 or 60 Hz, 7 amps, 3 wire

Applicability and Process

The following Thermo Scientific online analyzer models can be upgraded to CB Omni technology using the CB Omni-R package:

- EBA
- FSA
- CBA
- CB-GN
- CBX

A site application review may be required prior to order acceptance. Once the order is received and the CB Omni-R is delivered, a Thermo Scientific field engineer will be dispatched to the site to install and commission the retrofit. The CB Omni-R upgrade can be implemented in one single step by replacing hardware and software and will result in analyzer unavailability for only a period of three to seven days.

Deliverables

- Two detector assemblies – factory calibrated with state-of-the-art digital CB Omni pre-amp, high-voltage and temperature control electronics
- One electronics enclosure including state-of-the-art CB Omni
- Random Pulse Processor 4 (RPP4)
- One operator consol (OpCon) with Windows® operating system and Thermo Scientific Nautilus software
- High speed communication link between the OpCon and electronics enclosure
- One umbilical cable (25 meters) between the analyzer and electronics enclosure
- Reference standards specifically designed for the application
- Installation and commissioning
- ABLC



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