

Total Carbon (TC), Total Organic Carbon (TOC), and Total Inorganic Carbon (TIC) Automated Analyzer By Combustion, Acidification and Coulometric Detection



The CM255 Total Carbon Analyzer is a complete analytical system capable of measuring total carbon, total organic carbon, and total inorganic carbon in solid samples. Applications include pharmaceuticals, food, soils, sediments, geological materials, sulfur, and coal. Combining a high-temperature combustion autosampler furnace, self-contained autosampler acidification module and a highly sensitive CO₂ detector, the CM255 offers the flexibility to analyze almost any sample type and concentration with a precision unmatched by other analytical techniques.

The CM255 system includes the following components pictured above:

CM5017 CO₂ Coulometer

No user calibration
Wide, linear dynamic range
User selectable display units
Readability to 0.01 µg Carbon
LIMS compatible
12.1" fast-responding touch screen
USB Flash Drive storage

CM5700B TIC Autosampler

15-position or 30-position carousel
Solid pre-scrubber for CO₂ removal from the gas stream
Self-cleaning
Stirring and controlled sample heating up
Post-acidification scrubber for removal of interfering gases released during sample digestion

CM5200 Autosampler Furnace Module

- Two independent combustion zones programmable up to 1100°C
- 29-position sample carousel
- Post-combustion scrubbers for removal of interfering gases formed during sample combustion

Data Handling

Names, weights, and sizes of up to 50 samples can be entered, to be used by the CM5017 in calculating the final result. Analytical progress is displayed on the 12.1" LCD touch screen in user-selectable units. Detailed analysis information is automatically saved to an on-board memory stick after each sample.

Ordering Information

CM255 – Total Carbon (TC), Total Organic Carbon (TOC), and Total Inorganic Carbon (TIC) Automated Analyzer Includes:

CM5017 CO₂ Coulometer, CM5200 Autosampler Furnace, CM310-006 Combustion Tube Kit, and CM5700B TIC Autosampler with tools and accessories for analysis of solid or liquid samples. (P/N CM245-01 110V 50/60Hz) (P/N CM245-02 220V, 50/60Hz)

Optional Equipment

Printer – 3" format impact printer; includes cable, power supply, paper and ribbon. (P/N CM124-078)