

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

By Combustion, Acidification, and Coulometric Detection

Applications include pharmaceuticals, food, soils, sediments, geological materials, sludges, sulfur, liquids containing particulates, corrosive agents, and acids.

CONFORMS TO ASTM D 4129

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 below:

Part Numbers

CM255-01 110V, 50/60Hz

CM255-02 220V, 50/60Hz



CM5018 CO₂ Coulometer

- No user calibration
- Wide, linear dynamic range
- Readability to 0.01 µg Carbon
- Modern Windows-Based Interface
- Storage on Hard drive of PC
- LIMS Compatible

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 to 150 °C
- 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



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