

Total Inorganic Carbon (TIC) Analyzer with Autosampler

By Acidification and Coulometric Detection

Applications include:

soils, sediments, geological materials, sludges, water, wastewater, coals, ceramic powders, column packing materials, etc.

The CM245 is an automated TIC analyzer for direct measurements of total inorganic carbon in wide variety of sample matrices and concentrations. The CM245 system is offered with an optional built-in stirring and heating block, going up to 180 deg C. Samples can be either weighed into reusable Teflon™ cups that are thereafter placed into glass sample flasks or weighed directly into the flasks. Up to 15 samples (with 80 ml flasks) or 30 samples (with 20 ml flasks) can be analyzed in a single run. The CM5700B is interfaced with a CM5017 CO₂ Coulometer but is also compatible with a previous model CM5015.

The CM245 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 to 180 °C
Post-acidification scrubber for removal of interfering gases released during sample digestion

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

CM245 – Total Inorganic Carbon (TIC) Analyzer with Autosampler Includes:

CM5017 CO₂ Coulometer 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)