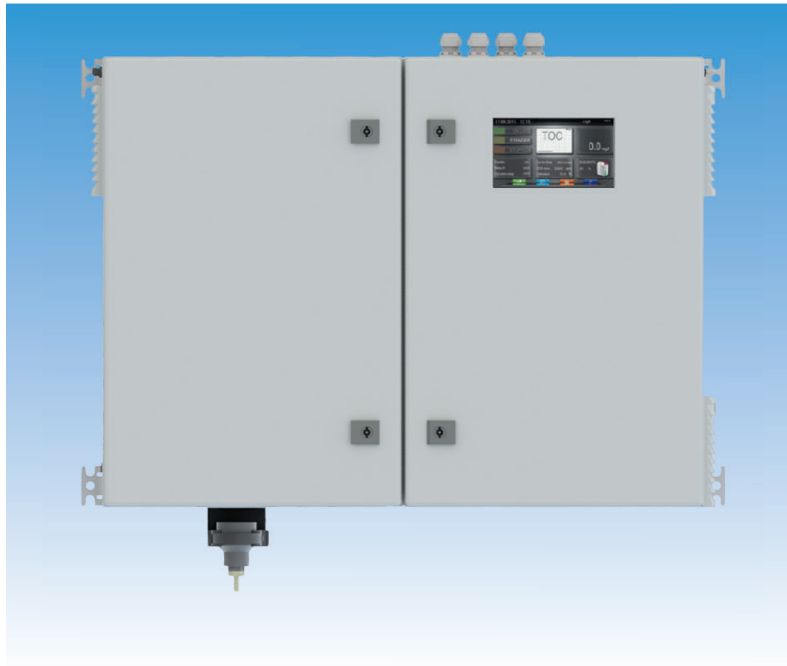


MODEL 6700E

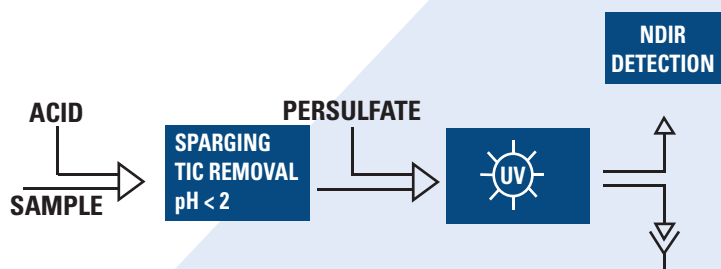
TOTAL ORGANIC CARBON ANALYZER



Online monitoring of total organic carbon is essential for regulatory and process control purposes among water treatment, wastewater and industrial users. Teledyne's 6700E Series employs proven UV-Persulfate methodology to isolate only organic carbons, oxidize them into carbon dioxide and measure TOC in the gas phase using infrared absorption technology. This method conforms to EPA, DIN, CE, ASTM and NAMUR regulations as well as meeting requirements of ISO and EN directives.

Analysis Process

To first remove the inorganic carbon, the sample is acidified below pH 2 which oxidizes the inorganics into CO_2 , which are then sparged. With only organic carbon remaining, the sample is introduced with a persulfate solution and radiated with ultraviolet (UV) light to oxidize the organic carbon into CO_2 . The TOC measurement can then be made as CO_2 using an integral NDIR analyzer.

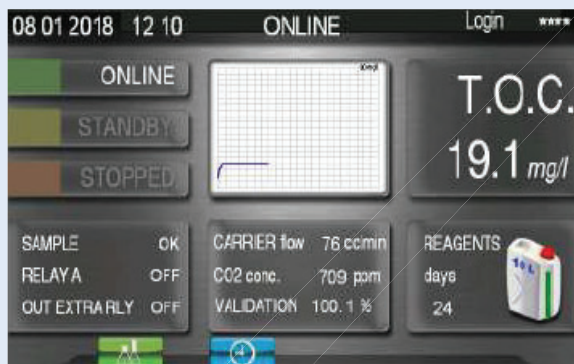


Features

- TOC or TC measurement, calculated COD available
- Ranges from 0-5 to 0-20,000 mg/L (dual range option available)
- Dual-compartment IP-65 powder-coated steel enclosure
- Digital flowmeter provides flow verification and alarms if flow stops.
- Auto-clean, auto-calibration or auto-validation functions as standard

Display

The color LCD touchscreen gives the user the latest TOC reading, recent trend data, fluid status, carrier flow and the alarm status on the main screen.



- Integral air compressor option eliminates carrier gas requirement
- 7-inch touchscreen color LCD
- 2 x 4-20mA outputs, 2 x Form-A relay contacts, RS-485 MODBUS
- RTU comes standard
- Ethernet option is available
- Integral data-logger with USB port for download

Available Accessories

Fast Loop Reservoir

Maintains a constant sample flow and switches analyzer to standby in case of insufficient flow. As soon as the sample flow restarts, the measurement is resumed.

External Diluters

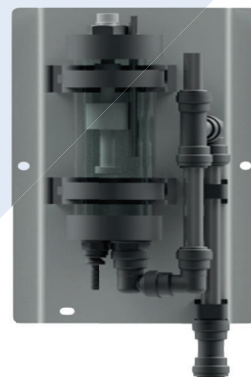
Options of 2x to 40x dilution of one or two sample streams using 1 motor with dual pump heads or 2 motors with a single pump head

Filtration Unit

Self-cleaning, at user selectable intervals and cleaning period.

Fast Loop Reservoir

The fast loop reservoir has a floating level sensor that is at atmospheric pressure allowing for a constant delivery of the sample without overpressure as well as allowing fast circulation of the sample from the sampling point or optional filtration unit.



SPECIFICATIONS

Analyte	TOC or TC, calculated COD available
Conformity	EN 310004-2, EN 610004-4, C 46-022, EN 61326 (electromagnetic compatibility)
Range	0-5 to 20,000 mg/L, single or dual range with external dilutor
Accuracy	± 2% FS nondiluted, ± 4% FS diluted
Response Time	From 6 minutes, depending on range
Temperature	Ambient: 41° to 104°F (5° to 40°C) Sample: 36° to 158°F (2° to 70°C)
Utilities Required	Air or Nitrogen, CO ₂ free (optional integral air compressor) Phosphoric Acid (for TOC only) ~10 liters per month Sodium Persulfate ~10 liters per month
Display	7-inch Touchscreen Color LCD
Outputs	Analog: 2 x 4-20 mA (isolated) Discrete: 2 x Form-A relay contacts (fault alarm & programmable alarm) Communications: RS-485 MODBUS-RTU (standard), optional Ethernet Data-logger: USB to download file
Dimensions	29.9"H x 23.6"W x 8.3"D (760 x 600 x 210 mm) 81.57 lbs (37 kg) approx. depending on range)
Power	115 or 230 VAC 50/60 Hz, 350 VA (115 VAC), 250 VA (230 VAC)
Protection Class	IP-65 / NEMA 4



TELEDYNE

ADVANCED MONITORING SOLUTIONS

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Measurement & Control