



RapidDuo™

The High-Speed Version of PC-Titrate TitraSip™ Systems

Analyze pH, conductivity, alkalinity and fluoride
in 3 minutes or less!



Load. Start. Done.



RapidDuo™

Man-Tech is pleased to announce the release of the RapidDuo™. The RapidDuo enables rapid multi-parameter analysis from a single sample. The RapidDuo is the HIGH SPEED version of Man-Tech's PC-Titrate TitraSip™ System. Analyze pH, conductivity, alkalinity and fluoride, in 3 minutes or less, total cycle time!

Benefits of the RapidDuo System:

- Analyzes multiple parameters FAST
- Quick Return on Investment
- Rock solid technology
- Follows US EPA approved methods



Man-Tech first delivered Multi-Parameter Solutions to the Environmental Industry 10 years ago, meeting the requirements of unattended analysis. In today's ever changing market, Environmental Laboratories are challenged to deliver results faster and Man-Tech has the solution, once again, with the RapidDuo.

Key Features and Benefits

- Utilizes US EPA ETV verified TitraSip SA technology
- Backward Compatible. Current PC-Titrate TitraSip end-users may upgrade and cut their analysis times by more than half.
- Rapidly generated results are accurate and precise
- Available configurations include stand alone, near-line or with the AutoMax sampler
- Galvanic electrode separation allows for simultaneous and separate analyses from the same sample
- IntelliRinse™ system ensures that the system and probes are clean before moving to the next sample
- Generates results for your clients sooner
- Durable, reliable and rugged
- Delivers results that stand the test of time

Applications include:

- pH
- conductivity
- alkalinity
- fluoride
- turbidity
- color
- hardness
- ammonia
- chlorine
- and more!

**Analyze up to 197 samples, unattended, in a single batch!
Still the largest capacity system on the market,
and now even FASTER.**

How Does the RapidDuo Work?

The key to the success and development of the RapidDuo is Man-Tech's innovative TitraSip System and the PC-Titrate™ software. The PC-Titrate software allows the control of 2 or more TitraSip modules in a single system. Most functions and analyses occur simultaneously, which is the heart of the FAST RapidDuo system.

Schedule of operation and analyses

Listed below, is the schedule of operation and analyses in the case of a RapidDuo for conductivity, pH, alkalinity and fluoride:

1. Rinse the probes, analysis vessels and all pipetting lines.
2. Move to the sample and triple dip for the conductivity measurement (conductivity is automatically separated from the pH and fluoride electrodes).
3. While measuring conductivity, simultaneously pipet sample aliquots into the alkalinity analysis vessel and fluoride analysis vessel. TISAB is also simultaneously added to the fluoride analysis vessel.
4. While measuring the pH and titrating for alkalinity, simultaneously stabilize and measure the fluoride concentration.
5. Move the sampler arm to the rinse station.
6. Simultaneously drain both analysis vessels and rinse the entire system using Man-Tech's dynamic IntelliRinse™.
7. For the next sample, repeat steps 2 – 7.
8. Total cycle time for alkalinities < 500ppm is 3 minutes or less!



Upgrade Options

SmartCal™

For scheduled, unattended, calibrations and QC standards analysis:

- Enables running real, revenue-generating samples sooner
- Increases the capacity of the AutoMax sampler for real, revenue-generating samples
- Increases profitability

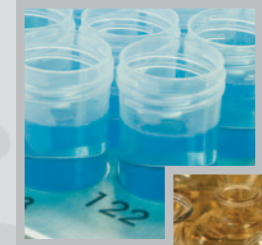
Turbidity/Color analysis and many more*

- Analyze turbidity and/or color from the same sample!

**For a complete list of approved methods capabilities, please request the Approved Methods List*

PC-BOD/Titrate Duo™

- Add the PC-BOD™
- BOD by Day, Titrate by Night



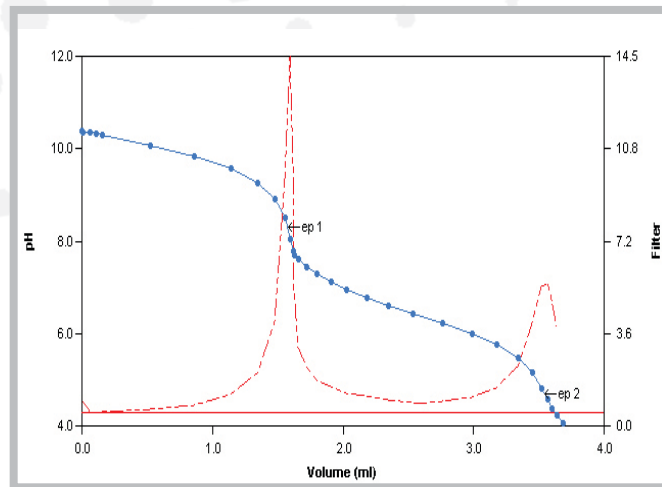
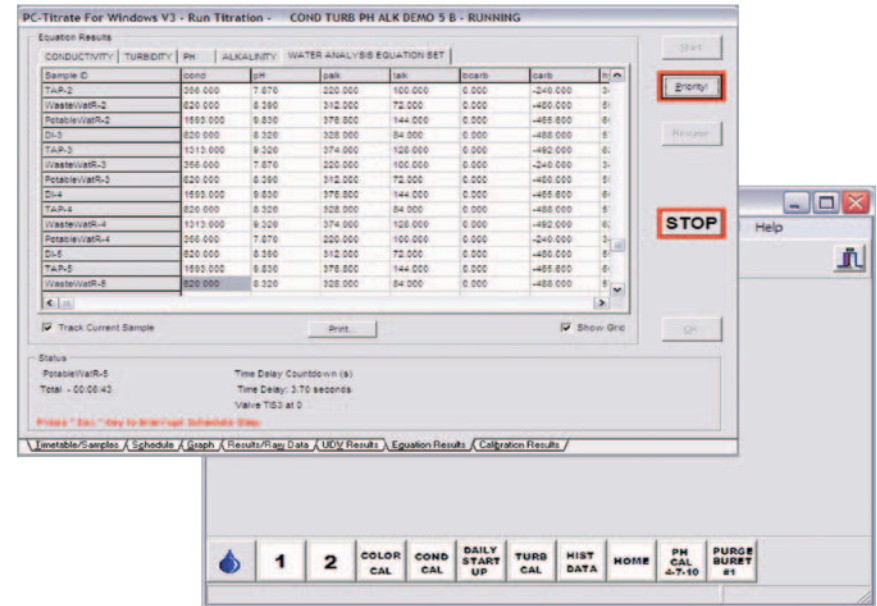
Invest in Man-Tech Automation

PC-Titrate™ Software

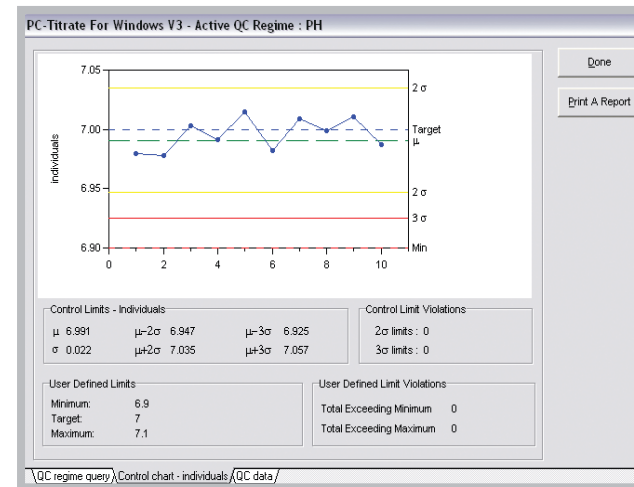
The PC-Titrate software controls all facets of the TitraSip Multi-parameter system.

- Controls all facets of analysis from a single sample
- Innovative Man-Tech Autorun buttons simplify operation
- Pick only the parameters required for each sample
- Auto calibration for pH, turbidity, ISE, color, etc.
- Up to 16 calibration points for each parameter
- Complete audit trail
- Import/export from/to LIMS
- Decision making capabilities, e.g.: IF/ELSE/WHILE
- Built-in quality control system for electrodes, standards, duplicates, spikes etc.

TitraSip Multiparameter



Titration Curve



QC Chart



Load. Start. Done.

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