

# Automatic Titrator

## Volumetric Karl Fischer



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## For water determination from 100 ppm to 100%

The Denver Model 375 makes quick, easy work of common KF titrations, because the titrator arrives pre-programmed for your specific applications. Setup is simple and you're titrating in no time. Typical results, obtained in minutes, are repeatable with a relative standard deviation of less than 1%. All this precision, and it's affordable too!

### Measuring ranges

- 0.1% to 100% w/w water content.
- Minimum sample size: equivalent to 1 mg of water.
- Maximum sample size: approx. 20 g.

### Programming Features

- KF titrant titre: Entered or Calibrated.
- Blank determination.
- Standby mode: KF cell always ready for sample injection.
- Automatic drift calculation before each sample analysis.
- Direct and double weighing techniques.
- Sample quantity entry at any time after sample injection.
- Sample quantity correction in event of error according to GLP.
- Alphanumeric sample ID.
- Global password protection for programming access.
- Titrant calibration and QC sample intervals.
- Result acceptance limits.
- Large, graphic backlit display, with choice of live curve display:
- Titrant volume vs. Time
- Polarization Potential vs. Time.

### Results

- Automatic calculation of up to 4 results using standard units and 2 user-defined equations.
- Standard units: ml (titrant), . mg/ml, µg/ml, g/l, mg/l, g, mg, µg, %, g/kg, mg/kg, mg/g, µg/g, ppm (H<sub>2</sub>O).
- User-defined result units with equations.
- Alphanumeric result ID.
- Automatic subtraction of the blank.
- Automatic sample dilution calculations.
- Automatic statistical calculations: mean and standard deviation on sample, Titrant and blank results.

### Printout

- Automatic, GLP compliant.
- Selectable: no, 80 columns.
- 3 levels of detail defined by method.
- Printed data can be sent as a single character string for LIMS connection XML).

### Data Storage

- Non-volatile memory for the last 200 results and last 100 titrant calibrations.
- 50 user-programmable methods, including 6 pre-programmed.
- Libraries for 15 reagents with pre-identified titrant ID and type to aid in programming.
- Entry of installed electrode ID and serial number.

### KF Stand

- Magnetic stirrer, 22 reproducible speeds (0 to 1100 rpm) in 50 rpm steps.
- Min. volume: 35 ml ± 5 ml.
- Max. volume: 150 ml ± 5 ml.
- Min. needle length: 115 mm.
- Screw-top glass beaker, clear or brown, standard or thermostated.
- Solvent addition and cell emptying in only a few seconds.
- Easy pump module removal for maintenance.

### Burette Stand

- 1 embedded burette stand
- Burette volumes available: 1, 5, 10, 25, 50 ml.
- Burette motor resolution: 18,000 steps.
- Complies with ISO 8655-3.
- UV-protected encapsulated glass syringe.
- Embedded operating procedures for burette exchange, air bubble removal (Flush).
- Fill, Empty, Rinse functions.

### General specifications

Languages:	English, Spanish, French, German, Danish, Italian and Swedish
Housing:	Splash-proof, chemical-resistant latene®
Keypad:	Soft-touch alphanumeric (silicone)
Display:	128x128 LCD protected from spillages with TPX® cover
Dimensions:	380 x 230 x 450 mm (HxWxD)
Net Weight:	5 kg (without bottles)
Power requirements:	47.5 - 63 Hz, 115/230Vac +15 -18%
Operating conditions:	5 to 40°C ambient temperature, 20 to 80% relative humidity



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