



# The first address for FOS/TAC analysis

## The new TitroLine® 5000

### The new autotitrator TitroLine® 5000 makes FOS/Tac titration an easy task

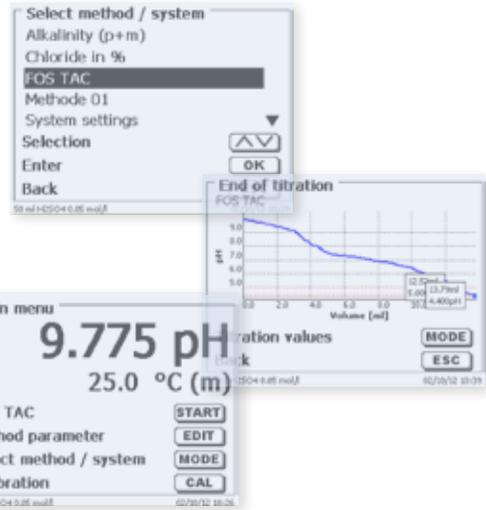
The perfect titrator for FOS/Tac titrations. With innovative features for simple and easy operation - without sacrificing accuracy.



- ▶ Ready to use method for titration FOS/Tac  
A complicated parametrization becomes redundant.
- ▶ Complete with robust low maintenance pH electrode.
- ▶ High visibility, full color display that can be easily viewed from a distance and at extreme angles.
- ▶ Storage of results on USB drive (PDF or CSV format).
- ▶ Customizable through three USB and two RS232 interfaces (e.g. additional pH- or mV-Titrations).

**SI Analytics**  
a xylem brand

\*FOS/TAC (en Allemands Flüchtige Organische Säuren/Totales Anorganisches Carbonat)  
(en Français AGV/TAC pour Acide Gras Volatils/Titre Alcalimétrique Complet)



## Application example for the water/wastewater and environmental analysis: FOS/TAC

An important parameter for monitoring the fermentation process of biogas plants is a titration method commonly known as FOS/TAC value. The TAC value is determined using 20 ml of a centrifuged sample from the fermenter titrated to pH 5.0 with 0.05 mol/l sulfuric acid. The FOS value is determined by a titration of the same sample to a pH of 4.4. Both titrated ml values are then used in the following calculation formula.

$$\text{TAC} = \text{ml H}_2\text{SO}_4 \text{ to pH } 5.0 \times 250$$

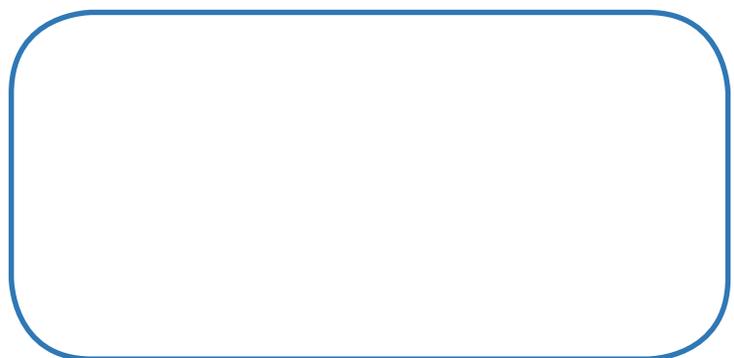
$$\text{FOS} = (\text{ml H}_2\text{SO}_4 \text{ from pH } 5.0 \text{ to pH } 4.4 \times 1.66 - 0.15) \times 500$$

A different sample volume could also be considered. The FOS/TAC value is the average calculated value. The method and all parameters and calculation formulas are stored as a standard method in the TitroLine® 5000.

## Ordering information:

Type No.	Order No.	Description
TL 5000/50 M2	285225790	Module 2: basic unit with ready to use with 50 ml dosing unit TZ 3130 with tubes, screw threads and titration tip, magnetic stirrer TM 50, mouse TZ 3880, titration clamp Z 305 and stand rod TZ 1748, with external power supply 100-240 V, for pH titrations with a pH electrode and buffer set

## Your distribution partner:



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