

TW *alpha plus* and TW 7400 sample changer - automatic titration in series

The number of samples to be processed is growing constantly while at the same time the demands on reliability are increasing in accordance with GLP and ISO 900X standards. The TW *alpha plus* and the TW 7400 sample changers by SI Analytics helps you meet these increased requirements and relieve qualified employees from routine work.

Control by titrator or by PC

You can control the sample changer from the TitroLine® 7000 titrator or from a PC with the TitriSoft software.

Higher flexibility due to exchangeable sample racks

With four sample racks for up to 72 samples (TW 7400) and titration head fittings for a variety of beaker and titrator vessels you get the flexibility your lab needs. The sample racks and titrator heads are very quick and simple to change. The size of the rack can be selected in the TitroLine® 7000 or in the ›Titration Center‹ of the TitriSoft software.

Stirring from "above" or "below"

As standard, the TW *alpha plus* comes with an integrated magnetic stirrer to stir the samples from "below". Alternatively, you can use a rod stirrer which enables stirring from "above".





*TW alpha plus with sample dish
for CSB vessels after DIN*

Washing the electrode and the titration tip

To ensure accuracy of the results, the electrodes and the titration tips are rinsed after each titration. This can, for example, be done by immersing the electrodes and titration tips into a washing solution. The number of rinsing positions to be used (up to a maximum of three) and the rinsing time are set in the method. Direct and fast rinsing of the electrodes and titration tips can be ensured by using the MP 25 washing unit that rinses directly after the titration. In addition to this, a waiting position may also be used for example to immerse the pH electrodes into a KCl solution.

Automatic CSB Titration

For the direct titration of the CSB there is a special sample tray for TW alpha plus with 24 positions available.



For the large sample throughput - TW 7400 sample changer

The new X/Y sample changer TW7400 has been developed for high sample throughput. There are three different sample rack sizes of 42, 48 and 72 positions, and three different titration heads available.

Both the sample racks and the titration heads are easily exchanged. The sample rack with the 42 positions can be operated with beakers of either 150 or 250ml volume. These are used in particular in the water and environmental analysis. With this sample rack the use of the irrigation pump MP 25 is recommended. The sample rack with 72 positions can be operated with beakers of

50ml and special sample containers for a sample volume up to approximately 75ml. Typical applications include e.g. the wine and beverage analysis, pH measurements in soil samples or the determination of the alkalinity in Seawater.

The sample with 48 positions is suitable for 100ml beakers especially used for wine analysis.

TW 7400 with 42 sample rack



TW 7400 with 72 sample rack



Selection table autosampler TW alpha plus and TW 7400

Feature/Accessory	TW alpha plus	TW 7400
Stirring from the bottom with built-in magnetic stirrer	■	-
Rod stirrer TZ 1847 Suitable for all sample racks besides COD	■	■
Rod stirrer TZ 1846 Suitable only for COD sample rack	■	-
Rinsing pump MP 25. Suitable for sample racks: TZ 1452, TZ 1459 und TZ 3942	■	■
Sample rack for 12 positions TZ 1452 Suitable for titration vessel 250 ml low form (scope of supply) and 400 ml tall form	■	-
Sample rack for 16 positions TZ 1459 Suitable for titration vessel 150 ml low form (scope of supply) and 250 ml tall form	■	-
Sample rack for 24 positions TZ 1454 Suitable for titration vessel 50 ml tall form (scope of supply) and titration vessel up to 75 ml sample volume (TZ 1786)	■	-
Sample rack for 24 positions TZ 1444 Suitable for COD sample vessel 100 ml according to DIN (not included in scope of supply!)	■	-
Titration head TZ 1463 with 7 openings NS 14 Suitable for sample rack TZ 1459 and TZ 1452	■	-
Titration head TZ 1467 with 7 openings NS 14, splash shield and rinsing spray Suitable for sample rack TZ 1459 and TZ 1452 in combination with rinsing pump MP 25	■	-
Micro-titration head TZ 1469 with 4 openings Suitable for sample rack TZ 1454	■	-
COD titration head TZ 1461 with 3 openings Suitable for COD sample rack TZ 1444.	■	-
Sample rack for 42 position TZ 3942 Suitable for titration vessel 150 ml low form (scope of supply) and 250 ml tall form	-	■
Sample rack for 48 positions TZ 3948 Suitable for titration vessel 100 ml tall form (scope of supply)	-	■
Sample rack for 72 positions TZ 3972 Suitable for titration vessel 50 ml tall form (scope of supply) and titration vessel for up to 75 ml sample volume (TZ 1786)	-	■
Titrierkopf TZ 3963 with 7 openings NS 14 Suitable for sample rack TZ 3942	-	■
Titration head TZ 3967 with 7 openings NS 14, splash shield and rinsing spray Suitable for sample rack TZ 3942 in combination with rinsing pump MP 25	-	■
Micro-titration head TZ 1469 with 4 openings Suitable for sample rack TZ 3948 and TZ 3972	-	■

Important note: The rinsing pump MP 25 can only be used in combination with the titration heads TZ 1467, TZ 3967 and the sample rack TZ 1452, TZ 1459 and TZ 3942.