



These days creating added value involves more than just an excellent product profile. You also need a partner who understands your business and your products, and who can develop new production techniques, optimise processes and design customised solutions.

A partner who is able to contribute in a real way to creating durable value: Henkel is the world leader in the adhesives, sealants and surface treatment markets. Drawing upon our unique and complete product portfolio, you benefit from our experience and the guarantee of the highest level of process reliability. **BONDERITE®** devices satisfy specific industry and maintenance requirements.

With the **BONDERITE®** E-CO AT05 automatic titrator, automatic titration moves from the laboratory to the process. The simple unit is strong, installed in a sealed box, can control up to 6 lines, and conduct diverse analysis on a vast product range in succession. The titrator, apart from managing the sample and analysis, performs routine auto-calibration cycles, manages acoustic and luminous alarms on the measured values and archives data from the various lines.

The installed control unit manages the addition of concentrated products necessary for restoring and maintaining the chemical parameters of the process. The sample is automatically lifted from the lines, placed in the external sampler, introduced into the analysis cell and titrated with reagents via a syringe dispenser. Reagents necessary for the preparation of the sample for analysis and calibration cycles are introduced in the cell via peristaltic pumps. A central control unit manages all the titration phases and external interfacing (programming, transmission and printing).

Principal characteristics

Monobloc steel structure – Easy installation - Six sample lines – Differentiated line analysis – Automatic calibration – Analogical and Serial output – Configurable alarms – Side controller – Reliable results – Simple to use.

TECHNICAL CHARACTERISTICS

Indicator: Touch screen panel
Microprocessor: 64 bits
Commands: Touch screen panel
Output: 4-20 mA board
RS 232/RS 422 for computer or printer

Alarms configurable for lines and analysis:
6 contacts for external start
32 contacts per control unit

Electrical Supply: 110/220 V 50 Hz 500 VA
Water Supply: 5-6 bar
Pneumatic supply: 7 bar
Material: Stainless steel
Protection: IP 55
Size: 900x590x1650 mm
Weight: 170 kg

SAMPLING

No. of tanks: Up to 6
Syringe Dispensers: Max 3
Peristaltic Pumps: Max 6
Sampling: Automatic
Temp. of product: 5 / 80 °C
Press. of product: 1 / 6 bar
Volume of titrated product: 0.5-80 ml, selectable
Suspended Solids: permitted
Total Sampling Volume: 750 cc max
Product Dilution: selectable

ANALYSIS

Analysis & Titration:

- Bivalent Iron (C-CP process)
- Trivalent Iron (C-CP process)
- H₂SO₄ (C-CP process)
- 704 BC (C-CP process)
- Free Alkalinity
- Total Alkalinity
- Free Acidity
- Total Acidity
- ...other by specification

Inbuilt sensors: up to 4 simultaneously

Environment temperature: 0-50 °C

Measurement units: mg/l, g/l, %, etc.

Precision: 2% of full scale

Repeatability: 1% of full scale

Type of titration: acid-base, redox

Configurable or automatic determination of endpoint (inflection)

Electrode cleaning: Automatic with water or detergent