

# Application training of controllable sera dosing pumps



Type series: C/R204.1, CS/RS204.1, C/CS409.2, C410.2



# Application training of controllable sera dosing pumps

- Target group:** Operating and service personnel, who use, start up and install the **sera** controllable dosing pumps. Engineers and technicians who are responsible for the design, procurement, and commissioning.
- Learning objectives:**
  - Learn about the different C-pump types (Commonalities, differences)
  - Proper selection of a dosing pump on the basis of the possible equipment characteristics
  - Learn about the common control menu of the C-pumps
  - Connection and wire of C-pumps
  - Get practical experiences in programming a C-pump
  - See and learn about the reactions of the pump on different input signals
  - Learn about different possibilities to use C-pumps in simple control applications and as part of a peripheral control system
  - Learn about the C-pump electrical accessory
- Content:**
  - **sera** C-pump models
  - Control panel
  - Electrical interface
  - Programming interface
  - Simulation-box: C-Box
  - Programming of a C-pump
  - Electrical accessory for C-pumps
- Practical exercises:**
  - Use of the programming interface
  - Work out solutions for simple dosing applications by using a C-pump:
    - Understanding of the application
    - Working out the required functions of the C-pump
    - Converting the function in a programming plan
    - Programming a C-pump
    - Test the function with a C-Box
  - Get experiences with the different operation modes and their use for dosing tasks:
    - Manuel/ Analogue/ Batch/ External/ Impulse
  - Test the self-deaeration valve
  - Flow sensor and flow meter:
    - Function and background
    - Application range
    - Programming
    - Adjustment
    - Calibration
  - Error diagnosis
- Duration:** 09.00 am to 03.00 pm
- Seminar documents:** Seminar documents, food/beverages, CD with **sera** product range, certificate of attendance
- Dates\*:** on request  
**Registration deadline:**
- Minimum number of participants:** 5 (dates for groups upon agreement)
- Participation fee:** 475,- €

\* The dates have been fixed so that they can be easily combined with our other trainings without additional arrival and departure.