

Automatic distillery management system – Fracto DST-4

Microcontroller for distillation, 04/2022

1. General description

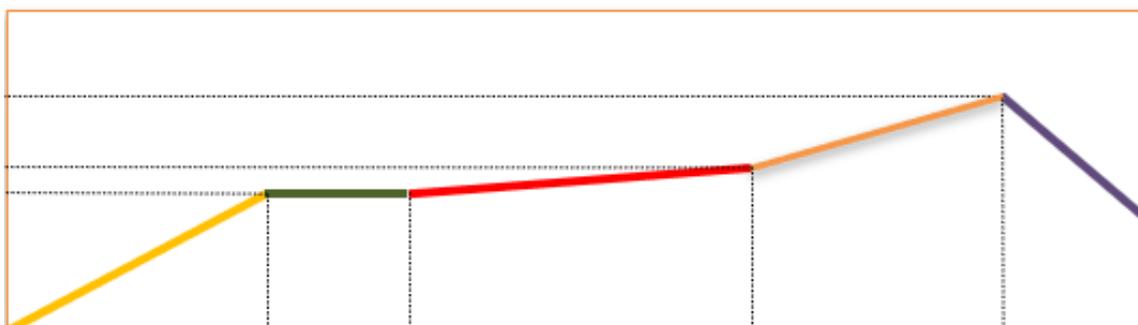
The DST-4 is a dedicated controller designed to fully automate the preparation of alcoholic distillates. The controller allows you to automate the following procedures:

- Control of the heating device (electric, gas or oil heater) according to a pre-defined five-step heating curve.
- Separation of alcohol into 3 streams: flower, head and tail.
- Advanced control of the cooling system of the deflagmator and refrigerator. The thermostatic function with adjustable temperature and hysteresis is upgraded with partial opening on/off.



Digital distillation management offers many advantages in automating the production of alcoholic beverages, including:

- Easily set and correct parameters without the need for an additional computer or programming language skills
- The system enables a fully controlled and reproducible preparation of distillates
- Possible installation when buying a new boiler or upgrading on your existing boiler
- Possibility of preparing all distilled alcoholic beverages Intended for hobby and professional use

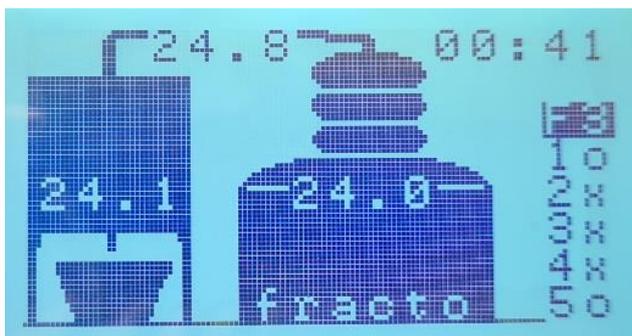


The DST-4 control system contains:

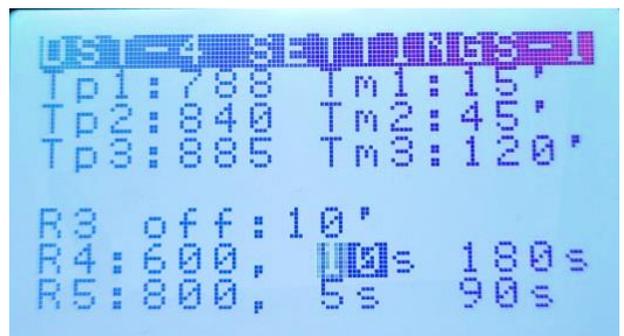
- Control module with LCD screen and 4 buttons for setting parameters
- Mechanical upgrade for sorting 3 different distilled alcohol phases
- Assembled 2x electromagnetic valve for separation of 3 distilled alcohol phases
- Assembled 2x electromagnetic valve for regulating the temperature of the cooling medium of the deflagmitor and main cooler
- 3x digital sensor on 3m cable

2. Technical specifications

- Power: 90 - 250 VAC
- Own consumption: < 5 W
- Power of output relays 6/10 A, 250 V
- Temperature range: 0,0 – 99,9 °C (controller area, programmatically restricted)
- Resolution: 0,1 K
- Precision: 0,5 °C (-10 ... +85 °C)
- Hysteresis: 0,5 °C
- Temp. sensor range: -55 ... +125 °C
- PCB dimensions: 113x92 mm (two-layer circuit)
- LED indicator Yes
- Usage For Fracto distillation systems and older stills
- Warranty 2 years



Graphic display of temperatures and phases



Settings display