YDAC INTERNATIONAL



FluidController FC 5000 Coolant applications

Description

The FC 5000 is a stationary device for the automation of the coolant supply for up to two tanks. The tank level is monitored to do so and topped up automatically.

Topping the tank up with ready-mixed emulsion allows the specified tank level in the system to be almost constant at the target specifications. A proportional coolant mixing device is connected to the Fluid Controller. The existing line pressure is recorded. In the case of an error, an error is indicated by the status LED and the fieldbus interfaces.

An intelligent top-up concept makes it possible to realise error-free fluid management. The FluidController can also be installed as an extension of the FCU 5000 system.

Applications

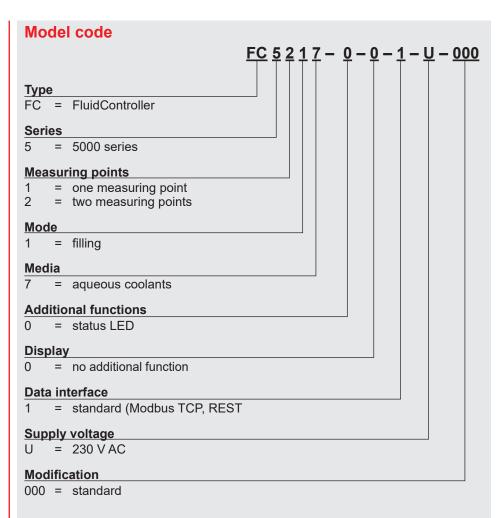
- Monitoring/control of up to two coolant tanks
- Automation of fluid management on interlinked, decentralised systems
- Direct compatibility with FCU 5000

Advantages

- Ensuring a defined tank level
- Documentation of system-specific
- Cost efficiency through high levels of automation
- I4.0-ready thanks to direct cloud connection

Technical data

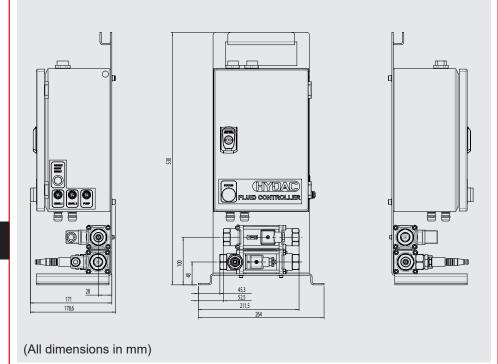
| General data | | |
|---|---|---|
| Operating method | Suitable for continuous operation | |
| Self-diagnosis | Continuously with error indication via | |
| | status LED and fieldbus interface | |
| Display | Via mobile end device (web server), LED | |
| Sealing material | FKM | |
| Ambient temperature range | 0 to 40 °C / -17.8 to 104 °F | |
| Storage temperature range | 0 to 50 °C / -17.8 to 122 °F | |
| Relative humidity | 0 to 70 %, non-condensing | |
| C€ mark | EN 61000-6-1/ 2/ 3/ 4 | |
| Protection class according to DIN 40050 | IP44 | |
| Housing | Steel housing | |
| Weight (without accessories) | ≈ 14.5 kg | |
| Hydraulic data | | |
| Operating pressure | 0.5 to 16 bar / 7 to 232 psi | |
| Permitted viscosity range | 1 to 40 mm²/s; to 180 Sus | |
| Fluid temperature range | 10 to 40 °C / 50 to 104 °F | |
| Electrical data | | |
| Supply voltage | 100 to 240 V AC 50/60 Hz | |
| Max. power/current consumption | 5 A | |
| Interfaces / data logs | Analogue input | 2x 4 to 20 mA |
| - | Level monitoring | |
| | Digital input | 2x 24 V |
| | Level monitoring | |
| | Ethernet | 2x TCP/IP Modbus TCP REST |
| | 1x switching output | Potential-free contact (max. 24 V, 1 A) |



Accessories

| Designation | Part no. | |
|--------------------------------------|----------|--|
| Electronics | | |
| Level sensor kit for FC 5000 | 4783470 | |
| 4G router for FC 5000 | 4742007 | |
| Hydraulics | | |
| Connection kit input for two systems | 4742008 | |
| Tank connection kit | 4742009 | |
| Emulsion mixer for FC 5000 (0–10 %) | 4742010 | |

Dimensions



Comment

The information in this brochure relates to the operating conditions and applications described.

For applications and operating conditions not described, please contact the relevant technical department.

Subject to technical modifications.

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