

# FC 5000 Series

# Fluid Controller Coolant Lubricant Applications



### Description

The FC 5000 is a stationary device for the automation of the coolant lubricant 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 lubricant mixing device is connected to the Fluid Controller. The existing line pressure is recorded. In the case of an error, it is indicated by the status LED and the fieldbus interfaces.

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

## **Applications**

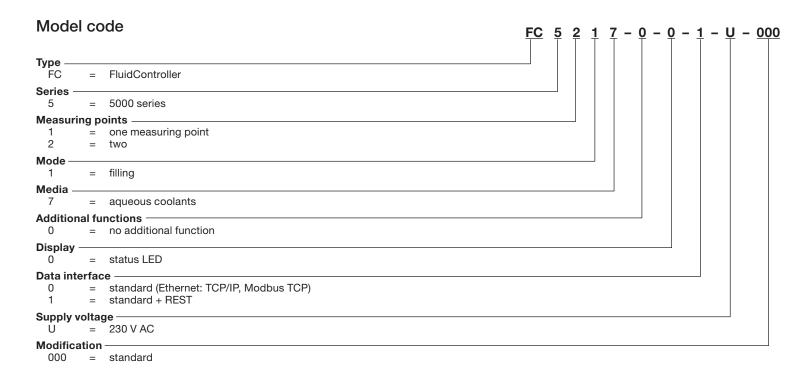
- Monitoring/control of up to two coolant lubricant tanks
- Automation of fluid management on interlinked, decentralized systems
- Direct compatibility with FCU 5000

#### **Features**

- Ensuring a defined tank level
- Documentation of system-specific data
- Cost-effectiveness thanks to automation
- · I4.0-ready thanks to direct cloud connection

# **Technical Specifications**

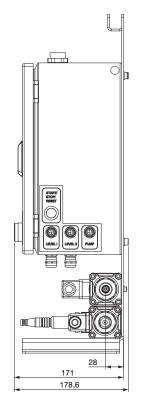
rechnical Specification	0115	
General Data		
Operating method	Suitable for permanent operation	
Self diagnostics	Continuously with error indication via status LED and fieldbus interface	
Display	Via mobile end device (web server), LED	
Sealing material	FKM	
Ambient temperature range	0 to 40 °C / -17.8 to 104 °F	
Storage temperature range	0 to 50°C / -17.8 to 122°F	
Relative humidity	0 to 70%, non-condensing	
<b>C€</b> marking	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	
Temperature range of medium	10 to 40 °C / 50 to 104 °F	
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Electrical Data		
Supply voltage	100 to 240 V AC 50/60 Hz	
Max. power/current consumption	5 A	
Interfaces/data logs	Analogue input Level monitoring	2 x 4 to 20 mA
	Digital input Level monitoring	2 x 24 V
	Ethernet	2 x TCP/IP Modbus TCP REST
	1x switching output	Potential-free contact (max. 24 V, 1 A)

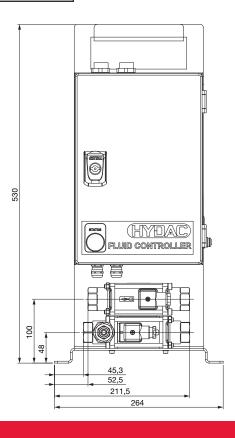


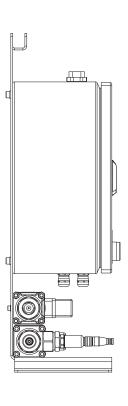
**FC Equipment** 

FC Accessories	Part Number	
Electronics		
Level sensor kit for FC 5000	4664886	
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**







All dimensions are in mm.