



Features and Benefits

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

The FC 5000 is a stationary device for the automation of the cooling lubricant supply. 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. The KSS proportional mixing device is connected to the Fluid Controller. The existing line pressure is recorded. In case of an error, an error is indicated via the Status- LED and the fieldbus interfaces. An error-free fluid management can be implemented by an intelligent top-up concept. The Fluid Controller can also be installed as an extension of the system of FCU5000.

- Monitoring / control of KSS tanks
- Automation of fluid management on interlinked, local systems
- Direct compatibility with FCU5000

Description

Applications

Specifications

General Data

Operating Mode: Suitable for permanent operation

Self Diagnostics: Continuously with error indication via Status-LED and field bus interface

Display: Via mobile end device (Webserver), LED

Sealing Material: FKM

Ambient Temperature Range: 0 to +40 °C / -17.8 to +104 °F

Storage Temperature Range: 0 ... +50 °C / -17.8 ... +122 °F

Relative Humidity: 0 ... 70%, non-condensing

CE Mark: EN 61000-6-1 / 2 / 3 / 4

Protection Class to DIN 40050: IP 44

Housing: Steel housing

Weight (Without Accessories): ≈ 14.5 kg

Hydraulic Data

Operating Pressure: 0.5 to 16 bar / 7 to 232 psi

Permissible Viscosity Range: 1 ... 40mm²/s; ... 180 Sus

Fluid Temperature Range: +10 ... +40°C / +50 ... +104°F

Electrical Data

Supply Voltage: 100 ... 240 V AC 50/60Hz

Max Power/Current Consumption: 5 A

Interfaces/Data Logs: Analogue input level monitoring: 2 x 4 ... 20 mA

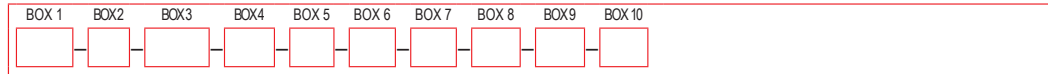
Digital input level monitoring: 2x

Ethernet: 2x TCP/IP, Modbus TCP, MQTT

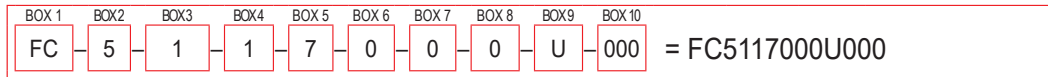
1x switching output: Potential-free contact (max 24V 1A)

Model Number Selection

How to Build a Valid Model Number for a Schroeder FC 5000:



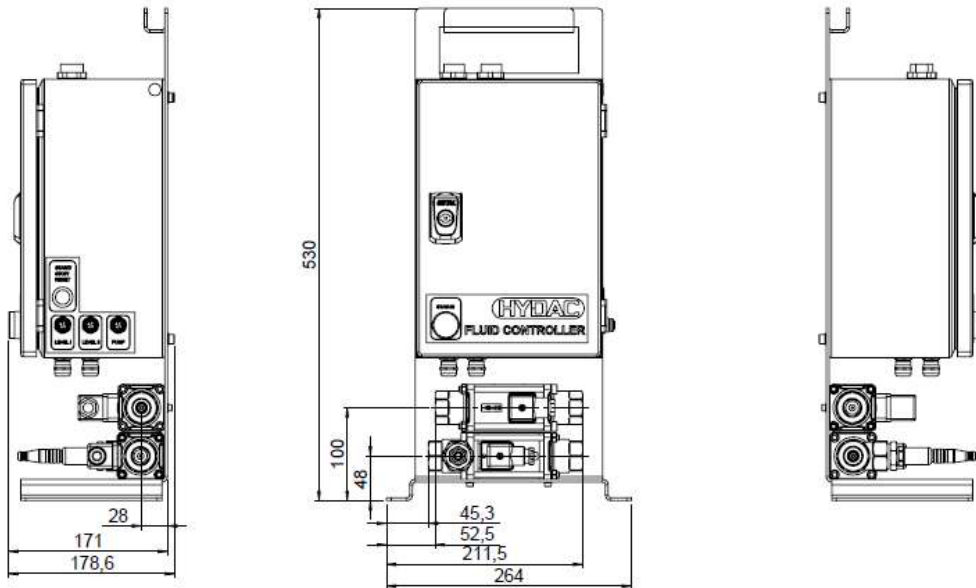
Example: NOTE: One option per box



BOX 1	BOX 2	BOX 3	BOX 4	BOX 5
Type	Series	Measuring Points	Mode	Media
FC	5 = 5000 Series	1 = 1 Measuring Points 2 = 2 Measuring Points	1 = Filling	7 = Aqueous Coolant KSS

BOX 6	BOX 7	BOX 8
Display	Additional Function	Data Interface
0 = Status LED	0 = No Additional Function	0 = Standard (Ethernet: TCP/IP, Modbus, TCP) 1 = Standard + MQTT

BOX 9	BOX 10
Supply Voltage	Modification
U = 230 V AC	000 = Standard



Dimensions in mm

Accessories

Description	Part Number
Electronics	
Level Sensor Kit for FC 5000	4664886
4G Router to FC 5000	4742007
Hydraulics	
Connection Kit Input for 2 Systems	4742008
Tank Connection Kit	4742009
Emulsion Mixer for FC 5000 (0-10%)	4742010