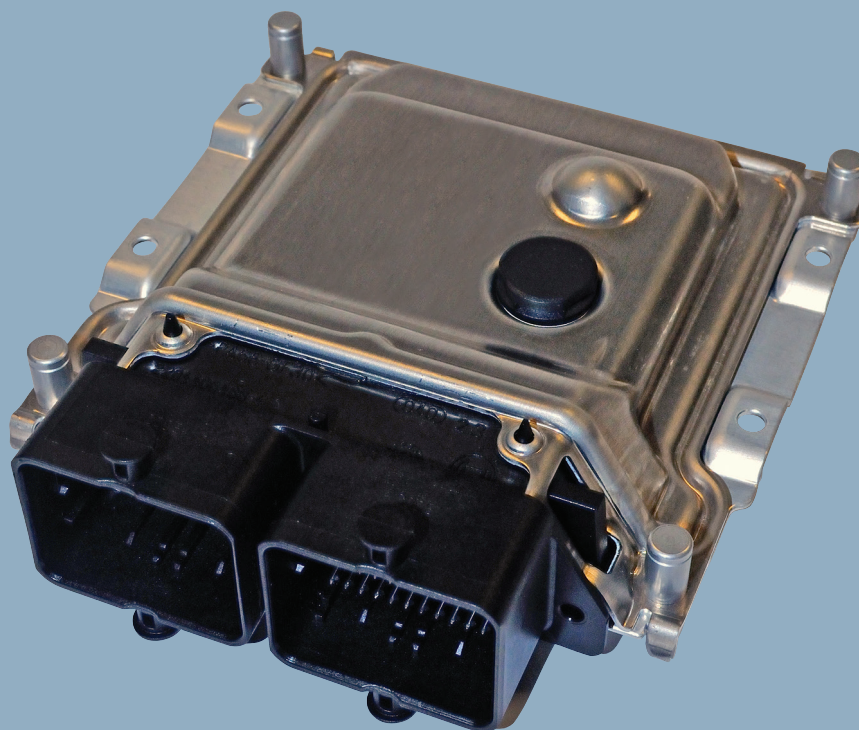# AFC45 Fan Control Software
for the RC4-5 Controller

Rexroth hydrostatic fan drives bring a breath of fresh air to every industry

Advantages at a glance

▶ Simple configuration without programming
▶ Up to two cooling circuits (each with a separate pump-motor combination)
▶ Up to six temperature signals per cooling circuit (analog/J1939)
▶ Up to three input signals (digital/analog) per cooling circuit for changing characteristics of fan drive control, e.g. reversing or standstill functions

Applications

▶ Agriculture
▶ Municipal
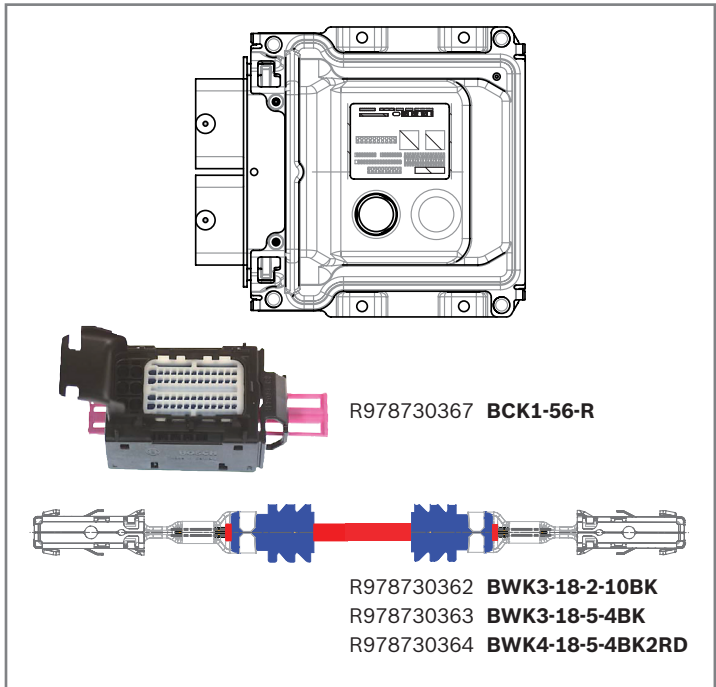▶ Construction
▶ Forestry

RC4-5 / 30 Controller
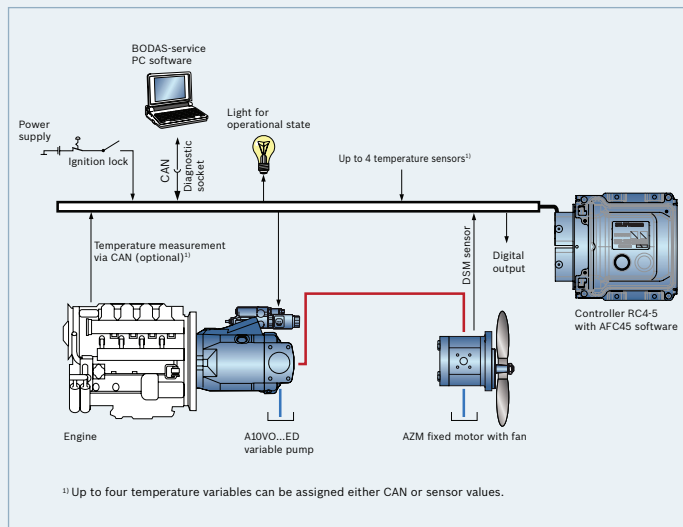
Specifications

▶ 32 Bit TriCore Processor

Technical data

▶ Microcontroller TC1724
▶ Clock Frequency 80 MHz
▶ Supply voltage 8 – 32 VDC
▶ EMC 200 VRMS/m
▶ Operating Temperature (–40 to +85 °C)
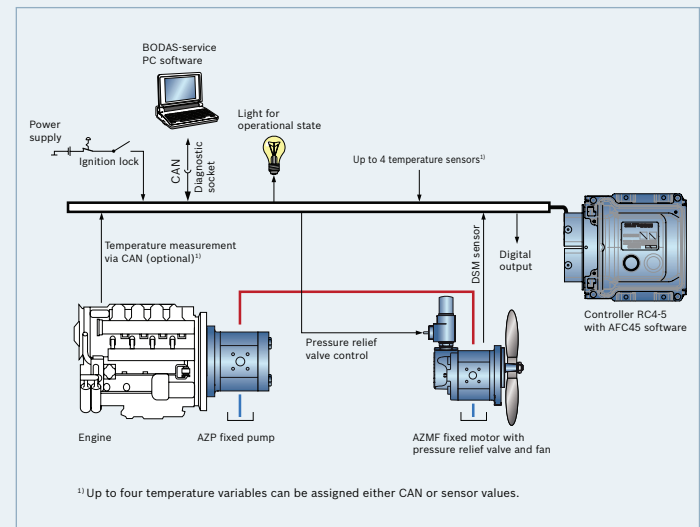▶ IP66 Protection

Connector Kits / Wire Kits

New connector kits (BCK), and wire kits (BWK) come with everything you need to quickly create and assemble a wire harness for your new RC4-5 controller. The wire kits come with pre-crimped pins, alleviating the need to purchase crimp tools. Wire kits can be ordered in various lengths, as well as black or red colored wire.

R978730367 **BCK1-56-R**

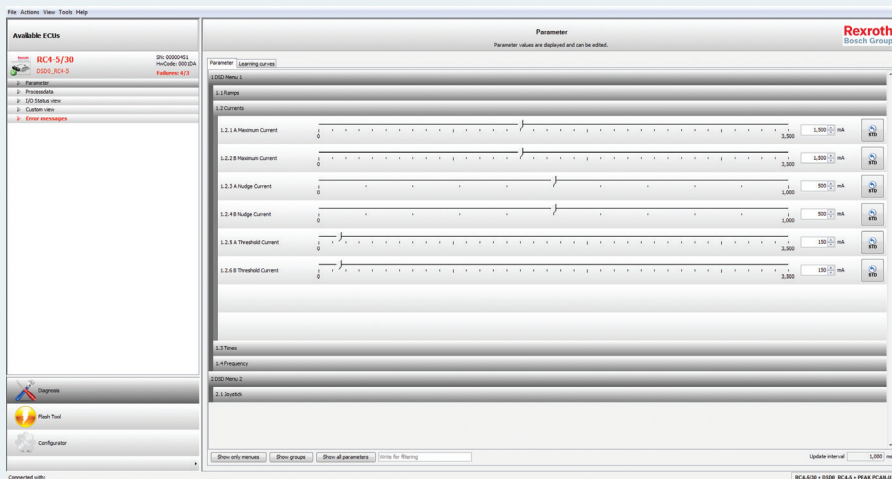R978730362 **BWK3-18-2-10BK**
R978730363 **BWK3-18-5-4BK**
R978730364 **BWK4-18-5-4BK2RD**

▼ **AFC45 hydraulic concept A**

BODAS-service PC software

Power supply

Ignition lock

CAN
Diagnostic socket

Light for operational state

Up to 4 temperature sensors[1]

Temperature measurement via CAN (optional)[1]

DSM sensor

Digital output

Controller RC4-5 with AFC45 software

Engine

A10VO...ED variable pump

AZM fixed motor with fan

[1] Up to four temperature variables can be assigned either CAN or sensor values.

▼ **AFC45 hydraulic concept B**

BODAS-service PC software

Power supply

Ignition lock

CAN
Diagnostic socket

Light for operational state

Up to 4 temperature sensors[1]

Temperature measurement via CAN (optional)[1]

Pressure relief valve control

DSM sensor

Digital output

Controller RC4-5 with AFC45 software

Engine

AZP fixed pump

AZMF fixed motor with pressure relief valve and fan

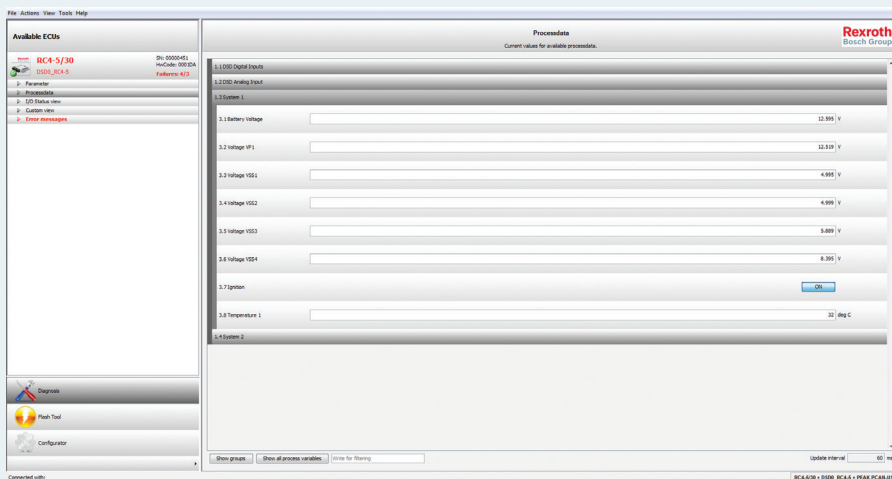[1] Up to four temperature variables can be assigned either CAN or sensor values.

AFC45 Fan Control Software Highlights

▶ The AFC45 Fan Control Software supports diagnostic trouble messages (DM1/DM2 via J1939)

▶ Infinitely variable fan drive for regulating oil, water, charge air, and/or environmental temperatures

▶ Reduction of fuel consumption by cooling on demand

▶ Reduction of noise at idle speeds

◀ **Bodas-service tool**
With the BODAS-service software, the programs can be quickly and simply downloaded to the controller via the Flash module. Extensive service functions, such as diagnostics, parameter setting or display of process variables are available via the graphical Windows interface of BODAS-service. This enables simple parameter setting and diagnostics in order to place the machine in service quickly and safely.

Less emissions, lower cost. Hydrostatic fan drive systems from Rexroth.

Electronically controlled hydrostatic fan drive systems from Rexroth reliably keep combustion engines at their optimum operating temperature, even under the most difficult of application conditions. This enables mobile equipment, buses, and commercial vehicles to comply with strict emissions regulations for exhaust gas and noise. Rexroth system solutions with axial piston pumps, external gear motors, polymer and steel tanks, valve technology, sensors and mobile electronics provide exactly the cooling output needed, regardless of the speed of the combustion engine, and even reduce fuel consumption by up to 5%.

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