

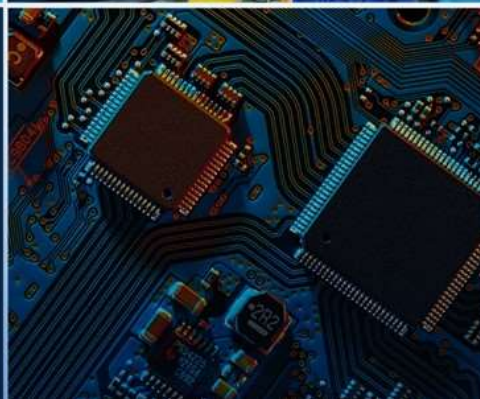
CFW100 Micro Drives



Driving efficiency and sustainability



Class: CFW101
Date: 01/2025



Automation Training

CFW100 – MICRO DRIVES



FEATURES

- Single-phase power - 100-127V / 200-240V
- Scalar Control (V/F), Vector Control (VFW)
- Features available on the standard version: SoftPLC, Flying Starting, Ride Through, Sleep Mode and PID
- HMI included in the standard version
- Flash memory (Module for copying parameters)
- Network communication protocols: Modbus RTU, CANopen
- USB communication
- Operating temperature up to 50 °C
- Plug-and-play expansion modules
- IP20 protection rating



CFW100 – MICRO DRIVES



APPLICATIONS

Exhaust Fans



Kneaders



Centrifugal Pumps



Conveyor Belts



Stirrers/Mixers



Ovens



POWER RANGE – IP20



CFW100 – MICRO DRIVES

FRAME	VOLTAGE	Motor HP	Drive Amps
A	Single Phase 120 Vac	1/4 - 1/3	1.6
	Single Phase 240 Vac	1/4 - 1/3	1.6
B	Single Phase 120 Vac	3/4	2.6
	Single Phase 240 Vac	3/4	2.6
C	Single Phase 240 Vac	1	4.2



EASY TO USE



CFW100 – MICRO DRIVES



1. Built-in HMI
2. Supply Terminals
3. For plug-in modules only
4. Digital inputs
5. Motor output terminals

SIMPLE INSTALLATION



CFW100 – MICRO DRIVES



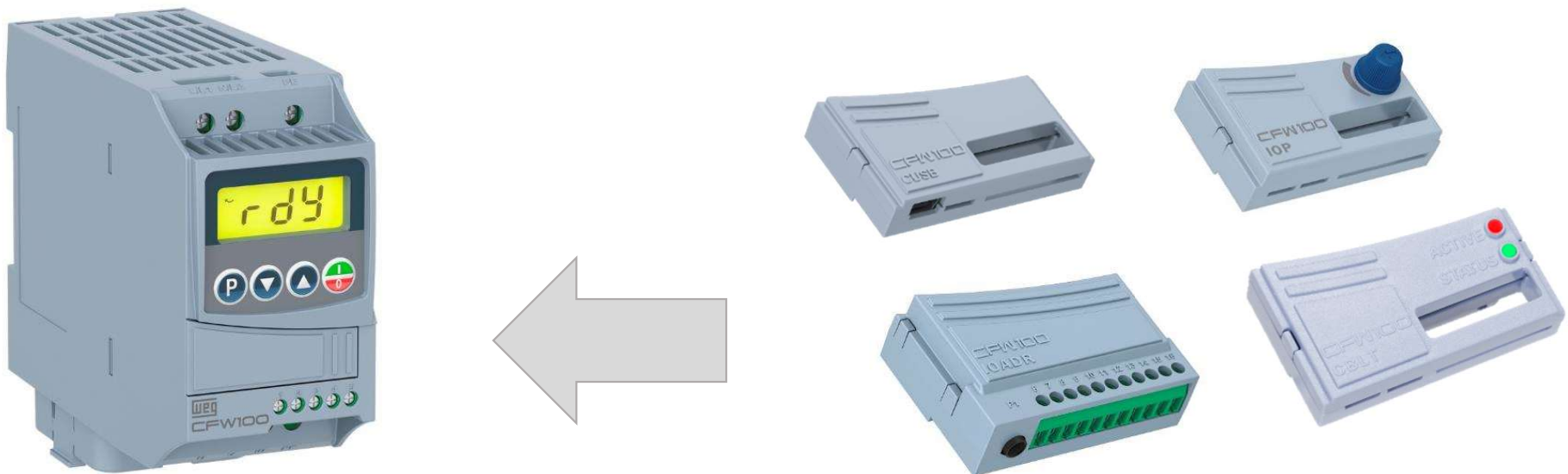
1. Built-in HMI
2. DIN rail mounting
3. Radio frequency filter
4. Easily removable fan
5. Plug-in modules that allow customizing the application

FLEXIBILITY



CFW100 – MICRO DRIVES

- The wide range of plug-in modules allows you to meet the requirements of any application!
- This allows inventory optimization!



PLUG-IN MODULES



CFW100 – MICRO DRIVES

Configuration of the Plug-In Modules

Reference	Function								
	Inputs		Output		USB	Potentiometer	Infrared	Network communication	
	Analog	Digital ¹⁾	Analog	Relay digital				RS485	CANopen
CFW100-CRS485	-	-	-	-	-	-	-	1	-
CFW100-CCAN	-	-	-	-	-	-	-	-	1
CFW100-IOP	-	-	-	-	-	1	-	-	-
CFW100-CUSB	-	-	-	-	1	-	-	-	-
CFW100-IOA	1	-	1	-	-	-	-	-	-
CFW100-IOADR	1	-	-	3	-	-	1	-	-
CFW100-IOAR	1	-	-	1	-	-	-	-	-
CFW100-IOD ²⁾	-	4	-	-	-	-	-	-	-



CRS485



CUSB



IODR



CCAN



IOP



1 Remove the cover



2 Insert the selected plug-in module



Simple!

Built-in HMI

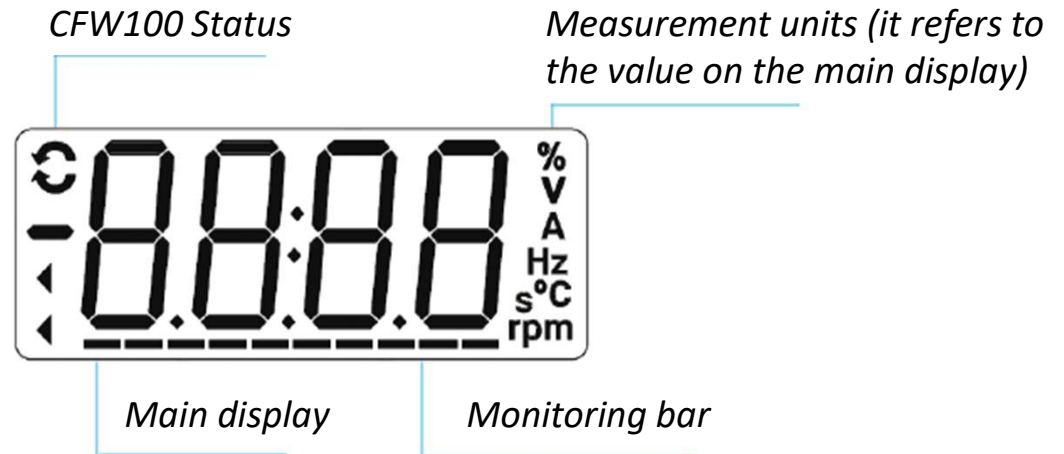
CFW100 – MICRO DRIVES



The
smallest
VFD with 2
parameters



- Friendly programming.
- Display of two parameters at the same time.
- Operation diagnostics, status, alarms, and faults.



FLASH MEMORY MODULE - MMF



CFW100 – MICRO DRIVES



- It allows copying parameters and programming in ladder using the SoftPLC.
- Internal battery with back up time for at least 5,000 procedures.
- No need to power up the VFD to copy parameters.
- Buttons to copy/download parameters between the MMF module and the inverter.
- Password to access the user program written on the SoftPLC.

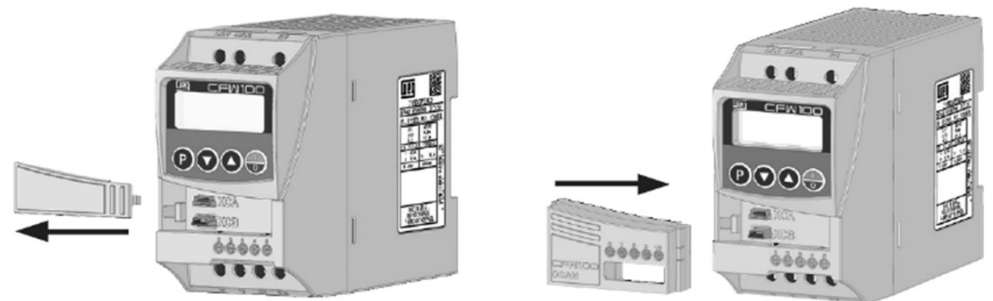
REMOTE HMI



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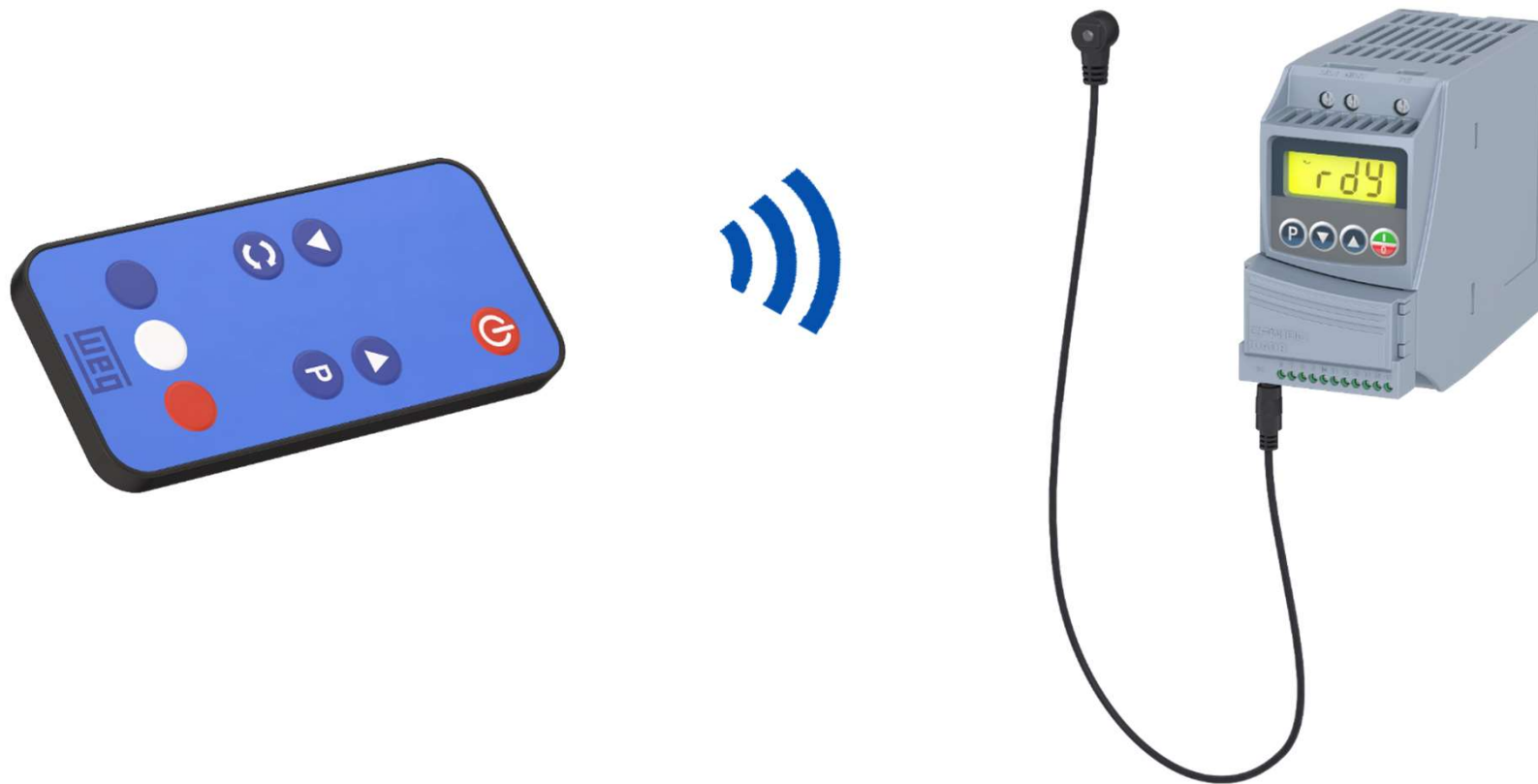


- Intuitive and easy-to-use HMI.
- Display of up to two variables at the same time on the home screen.
- Indication of engineering units and VFD status.
- Connection through the CFW100-CRS485.
- Easy connection via USB cable.
- When the remote HMI (CFW100-HMIR) is in use, the local HMI remains inactive.



INFRARED REMOTE CONTROL

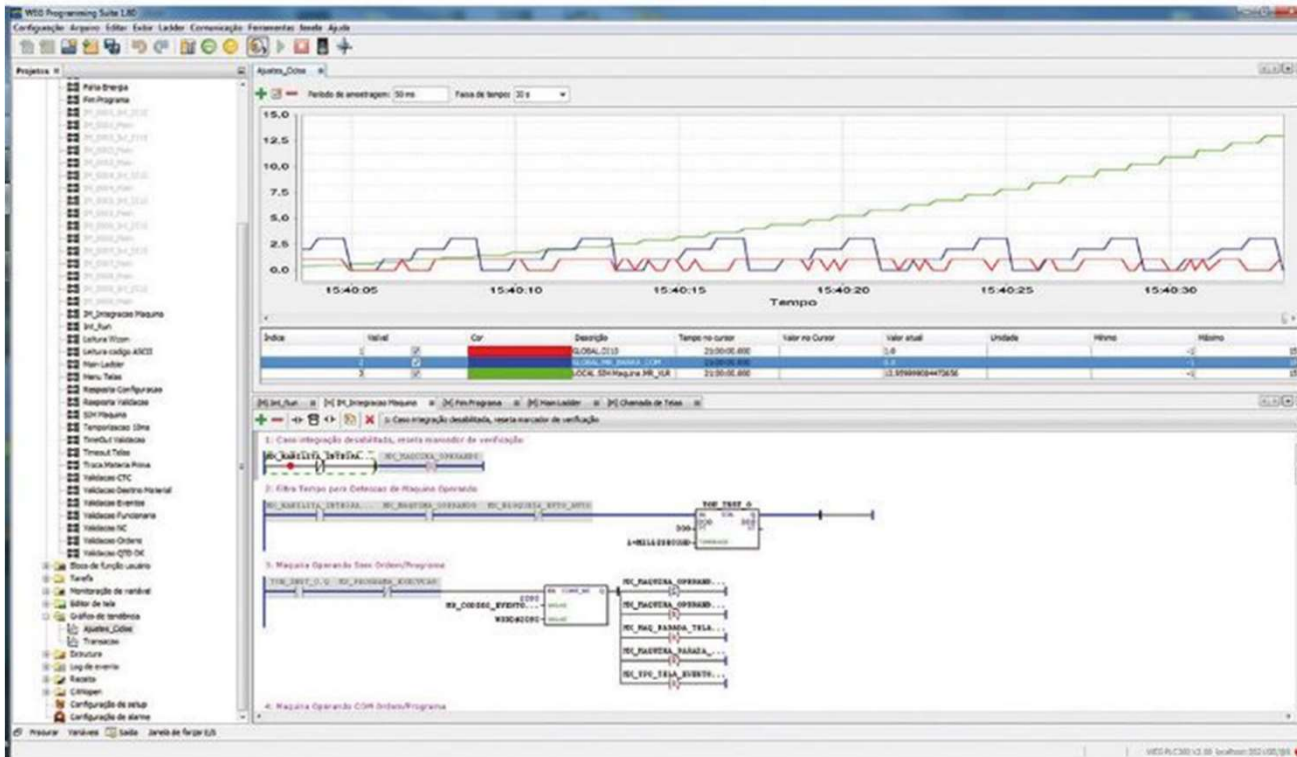
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WEG Programming Software

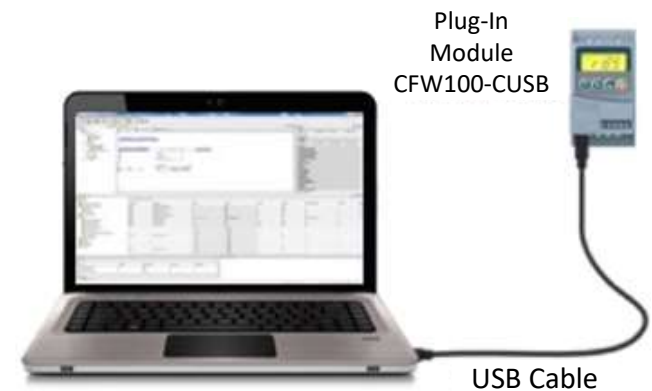


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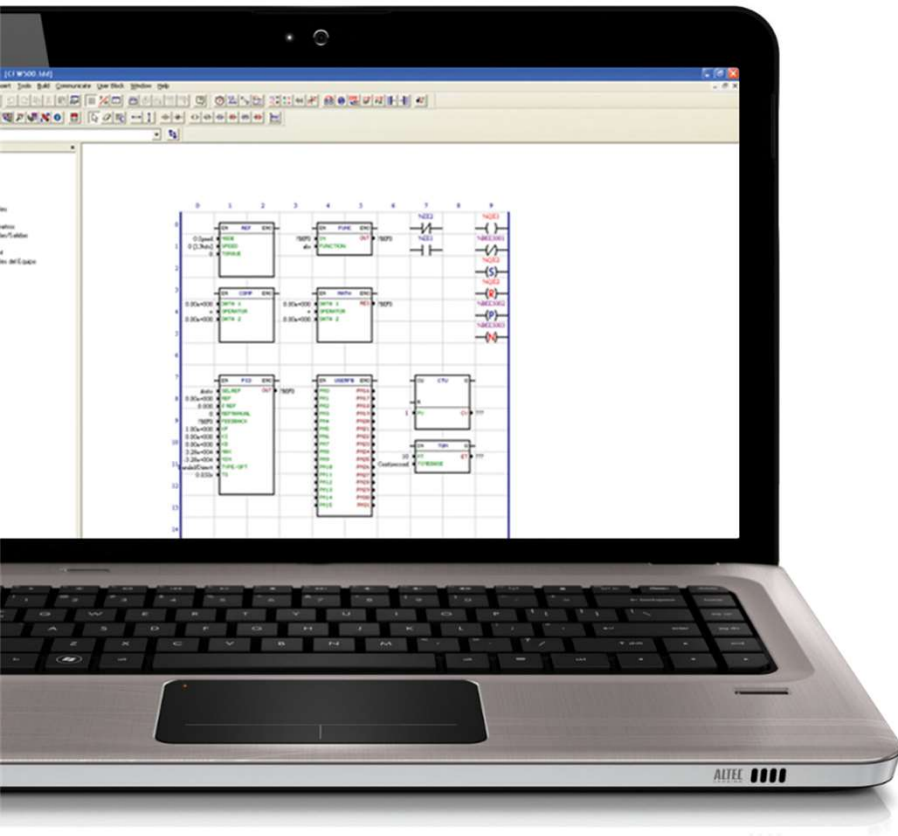
Connect, Configure,
Program, and Monitor
using WEG WPS
Software

Free software! Access:
www.weg.net



SOFTPLC FUNCTION

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- PLC function in the VFD itself.
- Internal memory capacity: 4k bytes (user program) and 408 bytes for parameters.
- Programming window similar to the CFW500 and CFW11.
- Online programming transfer and monitoring via plug-in module: RS485 or USB.
- Ladder programming language.
- 50 configurable user parameters.
- Access to all parameters of the CFW100, I/O, and HMI.

Free software! Access: www.weg.net



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Thank you for your
time and attention.



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