TPD500-FC
Field Controller

THE FUTURE OF DC DRIVES STARTS HERE!

DC APPLICATION | VERSATILITY | HIGH PERFORMANCES | RELIABILITY | REVAMPING | CONNECTIVITY

Discover the new **TPD500-FC**: dedicated **field controller** for highly inductive loads

PRECISION AND STABILITY
FOR FIELD CURRENT CONTROL

WEG introduces the **TPD500-FC**, a dedicated AC/DC converter designed to supply **highly inductive loads** such as electromagnets, excitation circuits of high-power DC controls, and galvanic processes, ensuring **precise and stable current regulation**.

SCAN
TPD500-FC
QR CODE

As part of the **TPD500 family**, the **TPD500-FC** shares the same **mechanical frames** (A and B), the same **control board architecture** (with dedicated firmware), as well as the same **on-board options** available for the TPD500 platform.

This common platform guarantees seamless integration with **TPD500 systems via fiber-optic communication**, while standard I/Os and fieldbus interfaces enable easy integration with other drives and automation systems.

The **TPD500-FC** can be configured and monitored using the same tools used across the **TPD500** series:

- **WEG_DriveLabs** for commissioning, monitoring and diagnostics.
- **WEG_DriveLogic** for developing customized control applications.

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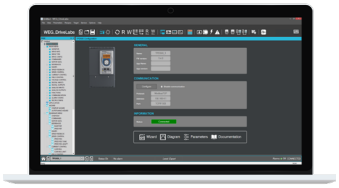
Driving efficiency and sustainability

General characteristics

STANDARD I/O

- 4 control inputs, 0/15 ... 30 Vdc opto-isolated (Enable, Start, Fast Stop, External Fault)
- 4 programmable digital inputs 0/15 ... 30 Vdc opto-isolated
- 4 programmable digital outputs 0/15 ... 30 Vdc opto-isolated
- 2 relay outputs 230 Vac (Drive OK and the second one programmable)
- 3 differential analogue inputs (±10 Vdc, 0 ... 20 mA, 4 ... 20 mA)
- 2 analogue outputs (±10 Vdc)

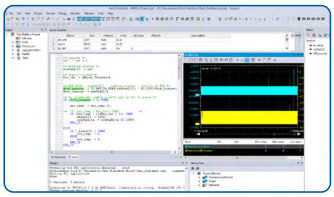


WEG_DriveLabs CONFIGURATION TOOL

WEG_DriveLabs is a PC-based configurator tool designed to connect to one or more drives, allowing status monitoring, information retrieval, and parameters reading and writing.

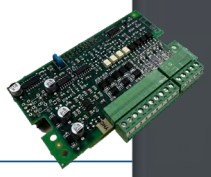
WEG_DriveLogic DEVELOPMENT ENVIRONMENT

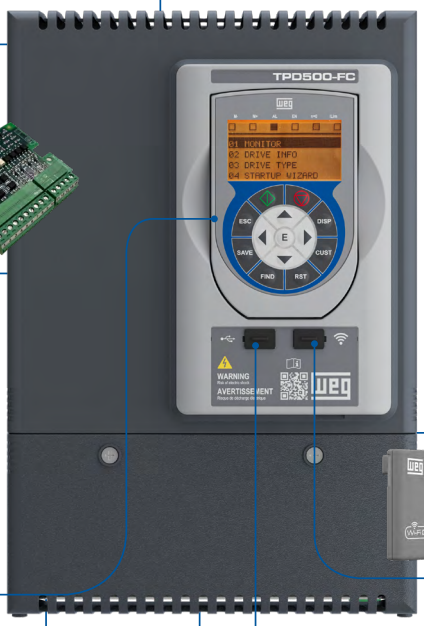
The TPD500 features the WEG_DriveLogic programming environment, built on the IEC 61131-1 standard, allowing users to develop customized applications for machine control. User-created menus and parameters are accessible both via the keypad and through the WEG_DriveLabs configuration software.



I/O EXPANSION (optional)

- 4 programmable digital inputs 0/15 ... 30 Vdc opto-isolated
- 4 programmable digital outputs 0/15 ... 30 Vdc opto-isolated
- 2 analogue outputs (±10 Vdc)





PROGRAMMING KEYPAD

The integrated programming keypad, equipped with an LCD display and clear text descriptions, offers comprehensive information on parameters and variables, enhancing the TPD500's intuitiveness and versatility.
Thanks to its practical mounting system, the keypad can be conveniently installed either directly on the drive (as default) or remotely on the cabinet door (with optional kit).

Wi-Fi DRIVELINK (optional)

Access point module for local Wi-Fi connection with the converter.

USB PORT

- Upload and download drive parameters
- FW download
- Data logger

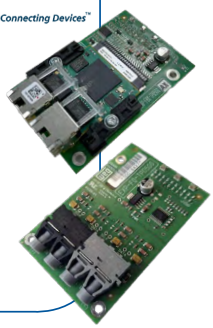
CONNECTIVITY (optional)

Interface cards to the main fieldbus communication protocols:

- PROFIBUS: EXP-PDP-TPD500 card
- PROFINET: EXP-ETH-PN-TPD500 card
- EtherNet/IP: EXP-ETH-IP-TPD500 card

Interface card for high-speed fiber optic communication for synchronized multi-drives systems:

- EXP-FO-TPD500 card



ETHERNET PORT

RJ-45 port for configuration via PC with Modbus TCP protocol.

TPD500-FC Field controller	Frame	Field circuit								Regulation card	Dimensions W x H x d [mm]	Weight [kg]
		AC Supply voltage				Rated DC output voltage [Vdc]				Rated DC output current [A]	AC supply voltage	
		TPD500-FC-200		TPD500-FC-500		TPD500-FC-200		TPD500-FC-500				
		60 … 200 Vac ±10% 3ph, 50/60 Hz ±5%		230 … 500 Vac ±10% 3ph, 50/60 Hz ±5%		2B	4B	2B	4B			
		2B	4B	2B	4B							
00020	A1		•	•	•					20		11
00040	A1		•	•	•					40		
00070	A2		•	•	•					70		11.5
00110	A3		•	•	•					110	267 x 366 x 282	
00140	A3		•	•	•					140		12
00185	A3		•	•	•		210	580	525	184		
00280	B1		•	•	•					280		
00350	B1		•	•	•					350		
00420	B1		•	•	•					420	312 x 395 x 347	26
00500	B1		•	•	•					500		
00650	B2		•	•	•					650	312 x 395 x 377	32

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