

Nidec

Drives



Pump Drive F600

Simple, reliable flow control

Specialist Drive



Nidec

Pump

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- 0.004 - 0.020 Motor Setup
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controltechniques.com/support

**CONTROL
TECHNIQUES**

CAUTION

Pump Drive F600

The Specialist

Pump Drive

From the drive specialists

Applications involving the flow of liquids demand extreme reliability and low energy consumption. Control Techniques' F600 drive, part of the Specialist series of industry-specific drive technologies, builds on our company's five decades of drives expertise, delivering precise, dependable flow control.

Everything you need is baked into the drive itself. The F600 packs all of the features you'll need, presented using terminology you'll understand. This isn't a generic drive with pump features tacked on; it's a dedicated, specialist pump drive, designed from the ground up to deliver the reliability and efficiency you need.



5-year warranty as standard*

Our Pump Drive is so reliable we are confident enough to supply it with a five-year warranty as standard.

*Warranty terms and conditions apply.



The perfect mix of application-specific features developed into a single solution



Speaks your language

The F600 drive is tuned to suit your every need, optimised for minimal setup time yet sacrificing none of the flexibility. Whatever the challenge, our dedicated approach to clear parameter naming and structuring ensures we not only have the answers, but in a format you'll understand.



Energy savings, unlocking the potential

On average, 85% of a pump's life-cycle cost is attributed to its energy consumption, therefore, optimising the energy usage can mean a significant reduction in the total cost of ownership. The F600 drive thrives on delivering more efficient ways of operating your variable torque application. You'll see the benefits in reduced running costs and lower energy requirements.



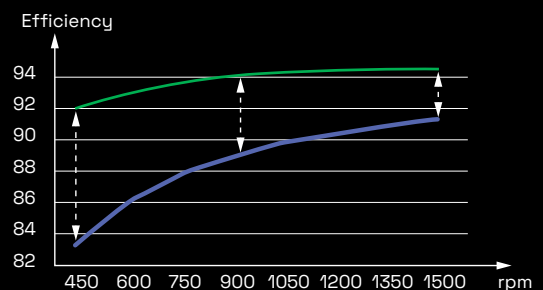
Engineered for your application

The F600 Pump Drive offers a host of dedicated features including dry-run prevention, pipe fill, pump cleaning, over-cycling protection and level switch control. A range of different control modes covering single pumps and also different parallel pump configurations make Control Techniques' F600 a truly versatile solution.



Total control

The F600 can also control the most efficient motors available, meeting IE5 efficiency levels, such as the Nidec Leroy Somer Dyneo+ hybrid permanent-magnet motor. With all of this combined, the F600 is your best choice to save you money every day.



● AC PMA SynRM Dyneo+ ● AC IE2 IM with VSD

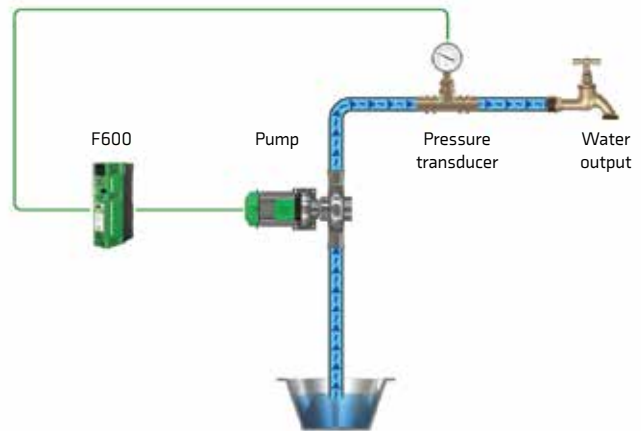
Pump control modes

Flexible support for every system

Single pump

Control Techniques' Single Pump mode is an effective and versatile variable speed control solution for maintaining a constant set-point in a single pump configuration.

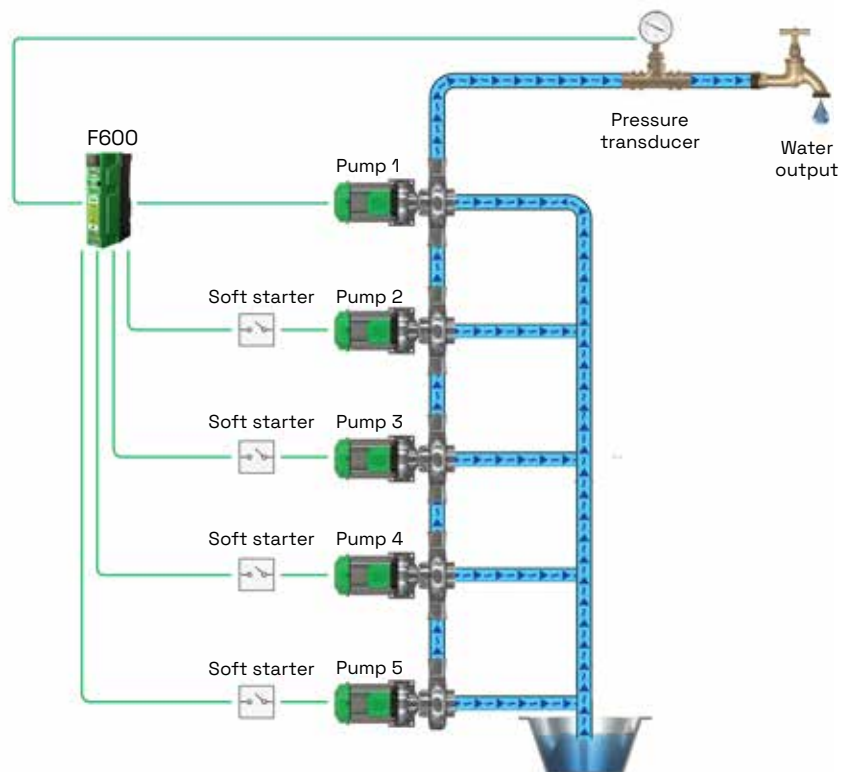
Fire mode allows the drive to disable trips and to continue to run uninterrupted during emergency events if the application requires.



Cascade duty assist

Cascade duty assist mode allows the F600 to operate with up to 4 assist pumps to aid the primary pump when required.

- Energy usage is optimised whereby the assist pumps are only enabled when demand reaches sufficient levels.
- Assist pumps are used alternately to apply uniform wear and increase pump availability.
- Over-cycling protection for assist pumps to control the number of starts and stops per hour.

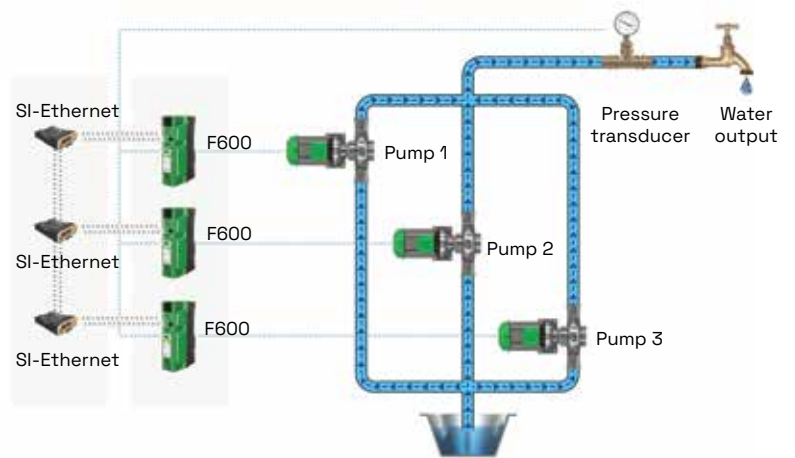




Multi-leader

Complete control of your application with up to 3 x F600 drives and maximum energy savings with these variable frequency drives running parallel.

- The Multi-leader drive configuration provides redundancy and removes the need for a PLC.
- The “lead” drive is automatically cycled to apply uniform wear.
- If the “lead” drive loses its transducer, it can access the transducer feedback from another F600 in the system over Ethernet.
- Dynamic re-selection of “lead” pump if a pump is taken out of service or develops a fault.





Dust and water resistant Pump Drive F600 High IP variant

The Pump Drive F600 offers a full IP65 solution with exactly the same dedicated pump features & capabilities as the standard models.

IP65 provides protection from total dust ingress and low pressure water jets from any direction, making it a simple choice for harsh environments and the outdoors*. The Pump Drive F600 is now one of the most protected drives on the market, maximising pump uptime and productivity, while cutting maintenance costs.

Standard and High IP drives

The High IP drive will already be familiar to users of the F600, with all the same features that make commissioning effortless. The Hand-Off-Auto keypad with the built-in real-time clock is still available, sealed, and the protective casing has been designed with easy servicing and usability in mind.

This new variant enables customers to use both standard and high IP drives for the same project, so there is no longer any headache with mixing-and-matching vendors or product feature sets, making project qualification straightforward.

Save on installation

The F600 High IP drive is enclosed in a sturdy, protective yet light casing, providing a compact solution. This not only allows easy integration in harsh environments but wall mounting close to the pump reduces installation costs, through:

- No cabinet required
- Shorter cable lengths
- Less labour time/cost to install drive

5-year warranty as standard*

Our Pump Drive High IP is so reliable we are confident enough to supply it with a five-year warranty as standard.

*Warranty terms and conditions apply
Shading from direct sunlight is required.



Unlock the power of your pump drive with KI-Keypad Plus

As part of our commitment to continued drive development, the KI-Keypad Plus is our most technically advanced drive user interface to date, designed to help you maximise productivity and performance.

Enhanced display

The bigger, brighter display of the KI-Keypad Plus enables you to easily access the key drive features needed to maximise the productivity of your machines. Enjoy the added convenience of having parameter descriptions readily available on-screen, providing helpful tips and guidance right at your fingertips.

Flexible and simple system monitoring

The keypad can show up to 10 user-selectable parameters on the status screen, giving you real-time information and feedback of your system. All parameters can be scaled individually and given custom units to best suit your application.

Easy troubleshooting

Using the troubleshooting help feature, errors can be identified quickly with in depth error code definitions, possible causes and suggested actions.

Multilingual keypad

English, Deutsch, Español, Français, Italiano, Polski & Türkçe.

Bluetooth connectivity

Wire free connectivity for drive set-up and monitoring.

Remote mountable

Access the keypad to adjust drive settings without opening the cabinet.

Real Time Clock (RTC)

Schedule operation and timestamp events, such as trips and alarms.

3 inch display

256 x 128 TFT Screen.



Hand, OFF, Auto Capability

Multifunctional buttons

Navigate easily and quickly through menus and parameters with clear indications of functions.

Secure operation

The KI-Keypad Plus comes with built in security features to prevent tampering or accidental parameter changes.

Robust design

With it's IP54 rating (NEMA 12), harsh and challenging environments are no problem.



Scan the QR code
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