

F60 DIGITAL PUMP CONTROLLER

THE ULTIMATE IN VERSATILE & FLEXIBLE PUMP CONTROL

SIMPLE TO USE AND VERY POWERFUL



FEATURES

- Very simple to program
- Multi voltage operation
- Displays pressure and set points
- 12 Programmable timers built in
- Powerful 40 Amp solid state drive
- 30 Amp Primary pump relay
- Dedicated 16 Amp alarm relay
- Detachable electrical housing
- 20 Bar 290 psi Pressure rating
- Suits pipes 25mm (1") & Larger
- Accepts remote input
- IP67 Rated

FURTHER INFORMATION

Further information including installation guides, programming guides and videos can be found at the following web page: <http://www.kelco.com.au/f60-pump-controller>

OUTLINE

The F60 Digital pump controller monitors system pressure and flow to ensure complete pump protection

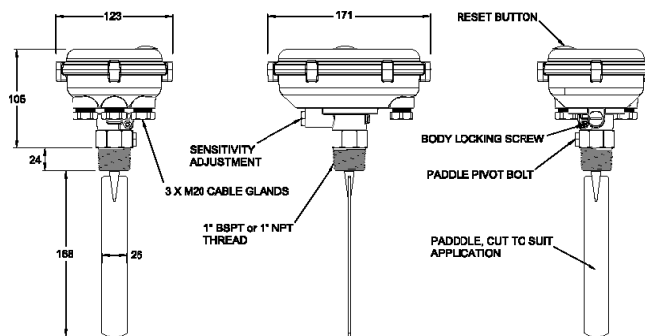
ORDERING

The F60 Digital Pump Controller is available in all thermoplastic construction with a 1" BSP process connection. The standard controller can operate from 220 ~ 240 VAC or from 24 VAC or DC. A dedicated 12 VDC model is also available.

Model Number	Description
F60	Standard model for 220 ~ 240 VAC and 24V AC or 24V DC operation.
F60-12	Low voltage model for 12V DC operation only.

TECHNICAL DATA

DIMENSIONS



FUNCTIONS

The F60 Digital Pump Controller includes 12 unique functions and 3 operating modes. The table below sets out the functions and the modes they operate under.

	MODE		
	1	2	3
Functions (# Settable)			
# Select pressure units kPa or psi	Y	Y	Y
# Pre-start delay timer.	Y	Y	Y
# Start-up timer	Y	Y	Y
# Running on the snore timer	Y	Y	Y
# Run-on timer	Y	Y	Y
# Delayed restarting timer	Y	Y	Y
# Starting pressure		Y	Y
# Stopping pressure			Y
# Cyclic running and stopping timers	Y	Y	
# Auto restart if run dry. Can be set to single or repeatable tries		Y	Y
# Anti-cycling	Y	Y	Y
# Burst pipe detection	Y	Y	Y
# Leak detector			Y
# Program Lock	Y	Y	Y
# Starts the pump at a preset low pressure		Y	Y
# Stops the pump at a preset high pressure			Y
Stops the pump if flow stops	Y	Y	Y
Displays the system pressure in preferred units	Y	Y	Y
Displays the high & low pressure set points			Y
Can start the pump using an external switch	Y	Y	Y
Starts & stops the pump on flow regardless of pressure	Y		
Remote stop via an external switch opening its contacts pressure temperature or level switch or an external relay's contacts.	Y	Y	Y
Stops the pump if flow stops.	Y	Y	Y
Loss of prime protection if an external pressure switch is connected to the F60's remote input terminal.	Y	Y	Y

SERVICEABILITY

The F60 digital pump controller is not user serviceable. However, spare parts and paddles are available from Kelco Engineering or from your distributor.

3 PHASE PUMPING SYSTEMS

The F60 can be used to control both single and 3-phase pumps provided a 220~240 VAC or 24VAC supply is available at the installation site.

LIMITATIONS

Operating Range	
Ambient Temperature Range.	1°C to 50°C
Liquid Temperature Range.	1°C to 60°C
Ingress Protection Rating.	IP67
Pre-Start Delay Timer.	Adjustable from 1 second to 4 minutes in 1 second increments.
Start-up Timer.	Adjustable from 1 second to 4 minutes in 1 second increments.
Snore Timer.	Adjustable from 1 second to 4 minutes in 1 second increments.
Run-on Timer.	Adjustable from 1 second to 15 minutes in 1 second increments.
Delayed Restarting.	Adjustable from 1 minute to 99 hours 59 minutes in 1 minute increments.
Cyclic Running & Stopping.	Running and stopping times both adjustable from 1 minute to 99 hours 59 minutes in 1 minute increments.
Auto Restart if Run Dry	Adjustable from 1 minute to 99 hours 59 minutes in 1 minute increments.
Anti Cycling.	Adjustable from 1 motor start per hour to 1800 motor starts per hour.
Burst Pipe Detector.	Adjustable from 1 minute to 99 hours 59 minutes in 1 minute increments.
Maximum Operating Pressure Static or Dynamic.	20 Bars 290 psi
Minimum Burst Pressure.	> 30 Bars 435 psi
Starting Pressure Range.	0 to 2000 kPa or 0 to 290 psi in steps of 1 kPa or 1 psi
Stopping Pressure Range.	0 to 2000 kPa or 0 to 290 psi in steps of 1 kPa or 1 psi
Minimum Pressure Differential On to Off and Off to On.	1 kPa or 1 psi.
Recommended Pipe Size.	25 mm 1" or larger. (There is no upper limit)

ELECTRICAL

Supply Voltage Standard Model	130 to 250 VAC or 18 to 25 VAC or DC (Multi Voltage Input)
Supply Voltage 12V DC Model	11 to 14 VDC
Maximum Motor Load all Models	Single phase motors up to 3.75kW maximum at 240VAC (P1). Three phase motors of all sizes via a suitable interposing contactor, no maximum motor size applies.
Relay 1 Contact Rating	30 Amps at 240 VAC resistive
Relay 2 Contact Rating	16 Amps at 240 VAC resistive

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