

F29 Mk2 PROGRAMMABLE FLOW SWITCH

A DIGITAL TOOL BOX FOR THE PUMP ENGINEER

FROM A SIMPLE START-UP TIMER TO A FULL SET OF ADVANCED FLOW & TIME BASED FUNCTIONS THE F29 Mk2 IS SIMPLY THE MOST POWERFUL & VERSATILE FLOW SWITCH AVAILABLE

FEATURES

- Multi Voltage Operation
- 10 Programmable Timers Built In
- Powerful 40Amp Solid State Drive
- Dedicated 16A Alarm Relay
- Detachable Electrical Housing
- 18 Bar 261 psi Rated Standard Model
- 200 Bar 2900 psi Model Available
- Suits Pipes 1" & Larger
- Accepts 2 Remote Inputs
- Weatherproof Housing



ORDERING

The F29 Mk2 programmable flow switch is available in various configurations to suit specific applications. Trailing wire versions for flows containing entrained solids are also available. Please contact your supplier for further information.

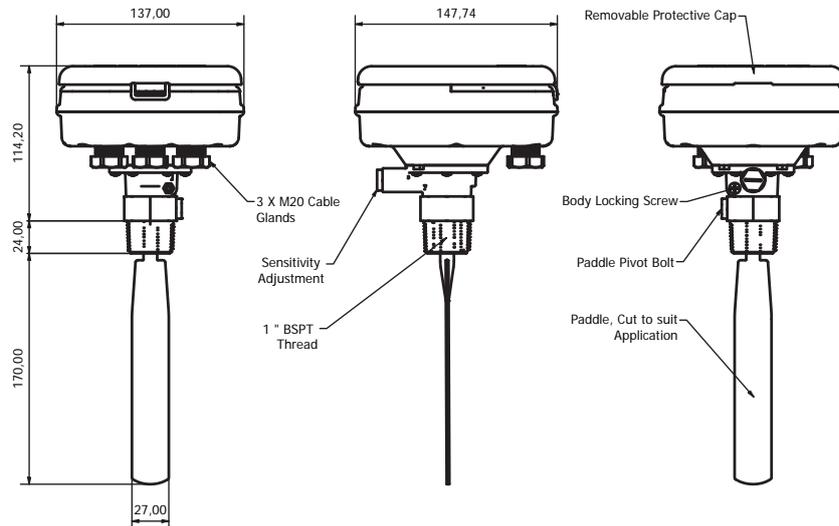
FURTHER INFORMATION

Further information including installation guides, programming guides and videos can be found at the following web page: <http://www.kelco.com.au/f29-programmable-flow-switch>

| MODEL NUMBER | DESCRIPTION |
|--------------|---|
| F29-S | 220~240 / 24VAC or DC Model Corrosion Resistance Thermoplastic Construction |
| F29-SS | 220~240 / 24VAC or DC Model With High Pressure 316 Stainless Steel Process Connection |
| F29-S-12 | 12VDC Model With Corrosion Resistant Thermoplastic Construction |
| F29-SS-12 | 12VDC Model With High Pressure 316 Stainless Steel Process Connection |

TECHNICAL DATA

DIMENSIONS



FUNCTIONS

The F29 Programmable Flow Switch Includes 10 Unique Time and Flow Based Functions. The Table Below Sets Out These Functions.

| Functions (# Settable) |
|--|
| # Start-up timer |
| # Run-on timer |
| # Pre-start delay timer. |
| # Delayed restarting timer |
| # Batch controller |
| # Cyclic running |
| # Auto restart if run dry |
| # Anti-cycling |
| # Burst pipe detector |
| # Leak detector |
| # Programming Lock |
| # Remote start via an external switch closing its contacts (momentary closing) pressure, temperature or level switch or a set of external relay contacts. |
| # Remote start and stop. The F29 only runs the pump while the external switch is closed. The external switch can be a tank level switch, a pressure or temperature switch or a set of external relay contacts. |
| Stops the pump if flow stops. |
| The F29 has true loss of prime detection only when an external pressure switch is connected to its remote input terminal. In this situation the F29's alarm relay can be set to close its contacts if dry run is detected. |

ELECTRICAL

| | |
|-------------------------------|--|
| Supply Voltage Standard Model | 220 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 2.4kW at 220 ~240 VAC (P1) 3-phase motors of any required size via an interposing contactor |
| Relay 1 Contact Rating | 16 Amps at 240 VAC resistive (Main Pump Relay) |
| Relay 2 Contact Rating | 16 Amps at 240 VAC resistive (Alarm Relay) |

3-PHASE PUMP MOTORS

The F29 can be used to control either single or 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 Standard Thermoplastic Models | 1°C to 60°C |
| Liquid Temperature Range Stainless Steel Models | -20°C to 80°C |
| Ingress Protection Rating | IP67 |
| Pre-Start Delay Timer | Adjustable from 1 second to 1 hour in 1 second increments. |
| Start-up 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. |
| Batch Controller | Adjustable from 1 minute to 99 hours 59 minutes in 1 minute 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 Thermoplastic Model | 18 Bars 261 psi |
| Maximum Operating Pressure Static or Dynamic Stainless Steel Model | 200 Bars 2900 psi |
| Minimum Burst Pressure Thermoplastic Models | > 30 Bars 435 psi |
| Recommended pipe size | 25 mm 1" or larger. (There is no upper limit) |

SERVICEABILITY

The F29 programmable flow switch is not user serviceable. However, spare parts and paddles are available from Kelco Engineering or from your distributor.

KELCO Engineering Pty Ltd

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