
The Sema EPCF

Effluent Pump Flow Controller

The EPCF is one of a series of variable speed effluent pump controllers manufactured by Sema Ltd. This variant uses an electromagnetic flow sensor to accurately control the number of litres per hour that the effluent pump delivers.

The system consists of two main components:



The Sema Variable Speed Controller



The Sema Electromagnetic flow sensor

Installation couldn't be simpler! The Sema controller is fully waterproof and only requires protection from exposure to direct sunlight so no expensive enclosures are necessary. The Electromagnetic flow sensor is both water and UV resistant, it has a smooth 50mm diameter bore and is designed to be connected into the main effluent line wherever it is convenient to do so.

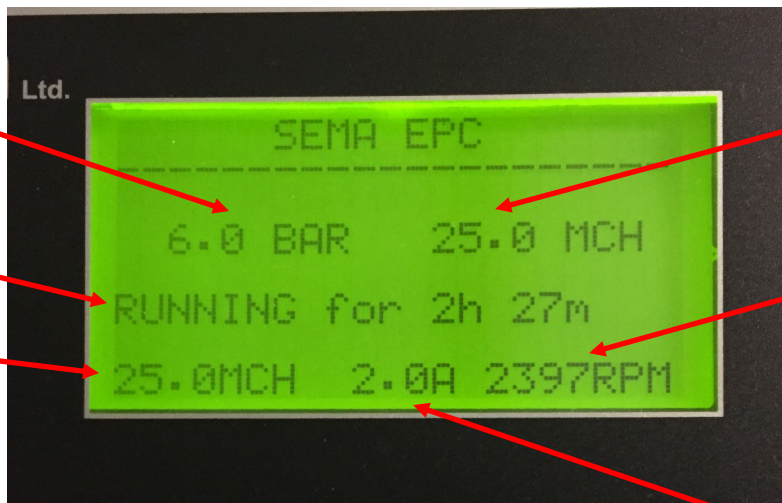
Please turn the page for more features:

When running the EPCF controller screen will show the following

If the optional pressure transducer is installed then the actual pressure will be displayed here

MODE

The set flow rate



The actual flow rate will be displayed here or in the centre of the screen if the pressure transducer isn't installed.

Motor RPM

Motor Current

Features:

- ◇ Surge protection and low voltage ride-through are built in
- ◇ Fully waterproof
- ◇ Made and supported right here in New Zealand
- ◇ Will maintain the set flow rate regardless of head pressure up to the pumps maximum rating
- ◇ Three different setpoints can be switched between with an external switch
- ◇ Loss of Prime protection
- ◇ Burst pipe protection
- ◇ Blocked pipe (irrigator shut off) protection
- ◇ An adjustable fill pipe delay gives time for the pipe to fill before the protections are activated
- ◇ Protected against over temperature and motor faults
- ◇ Maximum run time protection