



## **FLM-101 Recommended Jumper Settings For Different Flow Meters**

### **1. General.**

The FLM-101 is a top hat DIN rail mounting device that provides the means to monitor four independent flow meter pulse inputs.

It was originally designed to operate with the Crydom UF25P flow sensor.

It can also be used with other flow sensors which may output different pulse rates for given flow. One example is the SMC-LFE1 sensor.

The FLM-101 supports counting over different time periods to allow the trade off between longer sample times giving higher resolution but slower response rate and shorter sample times reducing the resolution but increasing the response rate.

### **2. Available Sample Periods.**

J10 is left open for pulse counting mode. In this case, J6 to J8 are used to select the time period over which the inputs are counted to determine the flow rate.. The flow rate monitoring is achieved by counting the number of pulses over a given time period. A higher resolution (achieved by increasing the time period over which the pulses are counted) gives greater accuracy of reading, but also results in a slower response time

Seconds	J8	J7	J6
1	open	open	open
2	open	open	present
3	open	present	open
4	open	present	present
5	present	open	open
6	present	open	present
7	present	present	open
8	present	present	present



### 3. Pulse Width Measuring Mode.

J10 can be fitted to change the method of operation to a pulse width measurement. In this mode the time period between negative edges on the incoming waveform is measured.

When J10 is fitted the settings of J6, J7 and J8 are ignored.

The reported reading is updated once per second or within one second of a positive edge on the incoming waveform being received, for pulse streams with a period of greater than one second.

Each channel can monitor time periods from 250ms to 15s. The minimum negative or positive pulse width is 50ms.

### 3. Recommended Settings.

When used with the VCP-800 / WAVE system the following settings are recommended.

Crydom UF25P flow sensor	Sample time 2s	J6 present, J7, J8 not present, J10 not present.
SMC-LFE1 flow sensor	Pulse width mode	J6, J7 and J8 all not present. J10 present.