

Catalyst Alarm

CTL-1000 & CTL-2000



Low Flow Alarm

Visual Monitoring of Catalyst Flow During:

Injection

Spray

Recirculation



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The CTL Series catalyst monitoring system provides a visual indication of catalyst flow during injection, spray and recirculation with additional audible low flow alarm

The all stainless steel Catal system flow sensor design provides an exceptionally sensitive flow indication of the important catalyst volume being mixed with the resin. The minute flow variations whether they be pulsed or reasonably steady state are observed on the systems electronic flow meter. Variations of different flow rates between pump up stroke and down stroke can be observed and to the trained observer pump performance can be detected at a glance. With this degree of sensitivity the Catal is supported with an alarm function which after adjusting to the desired ideal flow will provide an audible indication should the flow drop below this setting. An optional auto machine stop feature is also offered whereby should the flow drop below the desired setting for a few seconds then the machine will automatically stop. To restart the operator needs to press a reset to restart the machine operation in these cases

The CTL Series is powered from a universal power supply unit 100v-240vac with a 12vdc output. The

connection is via a jack plug either on the CATAL box or at the back of the machine control cabinet.

The catalyst flow monitor will operate only whilst the machine is pumping as it is activated by the pump start command and deactivated when the machine is stopped

Catalyst flow is indicated on the analogue meter. This flow is indicative of flow and must not be seen as a numeric flow value

The sensor has been factory set to catalyst flow ranges typical in normal RTM application i.e. 5kg/minute resin mix at 2% cat. ratio. Also when the Catal flow range switch is switched to 'LOW FLOW' position the system will indicate a catalyst flow as low as 6ml/minute (e.g. resin mix output of 1kg(2 lb)/minute at 0.5% catalyst). However if indicating towards the maximum level, move the range switch to 'HIGH FLOW'. In certain circumstances whereby the flow meter reading reaches full scale at the top of meter, the user may adjust the sensor ring element by moving it upwards to accommodate the higher flow.

It is not necessary to keep readjusting the sensor ring element. It is simply a coarse adjustment setting depending on each clients normal output levels.

The operator can observe the flow rate of catalyst over a wide range of pump speeds and percentage settings. The audible alarm can be set by turning the alarm setting control clockwise from zero to a point just below the 'running level' (e.g. giving an alarm when the catalyst flow drops below this setting).

There is also an optional dot matrix LED repeater available to show catalyst flow at a greater distance from the machine being monitored.



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