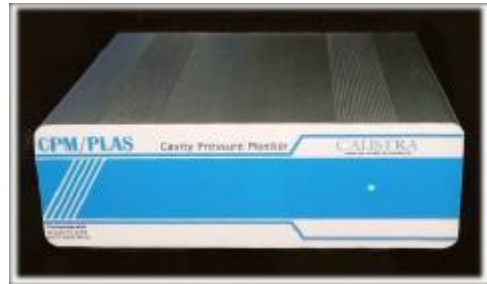

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systems made to measure

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Calistra Research Labs launches CPM/PLAS, a low cost Cavity Pressure Monitor for Injection Moulding

Cavity Pressure Monitoring is widely used in Europe and America to ensure the quality of precision moulded plastic parts.



Until now, moulding companies, new to the field, wishing to investigate how cavity pressure monitoring would help them monitor and improve product quality were faced with a hefty investment in hardware and software.

Calistra Research Labs partnered with Kistler Instruments Pte Ltd to lower the entry barrier by introducing CPM/PLAS a unit that connects the cavity pressure sensor to your PC and displays the pressure curves and vital statistics (PMax, PIndex) of the process.

In normal use, CPM/PLAS accepts charge inputs from piezoelectric sensors. Users of other sensors can use the direct voltage inputs. A proximity switch is used to detect the start of the moulding cycle.

For users who find these measurements useful and wish to delve deeper into improving process stability, CPM/PLAS includes an interface to **SPC for Machines** – a low cost SPC package. A trial copy of **SPC for Machines** is included with the CPM/PLAS software. (See <http://www.spc4machines.com>)

Requirements

CPM/PLAS connects to a notebook or desktop computer via the built in USB port. The computer requires Microsoft Windows 2000 or Microsoft Windows XP to operate.

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Background

Cavity Pressure monitoring uses a pressure sensor (usually quartz) to monitor the pressure inside the mould cavity in real time during the injection moulding cycle.

The cavity pressure changes during the different phases of the moulding cycle. Parameters like injection pressure, fill time, mould temperature, material viscosity and mould geometry each have their effect on the shape of the pressure curve.

This monitoring has been found to provide vital information for optimising the moulding process and to maintain the production of high quality parts. Cavity Pressure Monitoring is used by many of the world leading moulding companies, particularly for precision components for the electronics, automotive and medical industries.

To find out more about Cavity Pressure Monitoring, the best reference is **Kistler Instruments Pte Ltd**

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