

INTEGRATOR SERIES CONTROLLERS (MISC)

Megnajet Integrator series controller – (MISC)

OEM Inkjet Integration has just got whole lot simpler! Megnajet are pleased to announce their latest product: The Megnajet Integrator Series Controllers (MISC).

MISC allows the customer to dictate simply and precisely the functionality they require from their ink delivery systems. The MISC is ideal for integrators and OEMs that are looking to add proven, reliable, industrialised ink/fluid precision meniscus control functionality. The MISC offers the fastest and most reliable route to production whether it is for in house testing or industrial market place use.

The MISC supports:

- End shooter print head technology: Dimatix S & Q class, Konica Minolta Kyocera, Ricoh, SII, and Xaar.

Overview/basic functionality



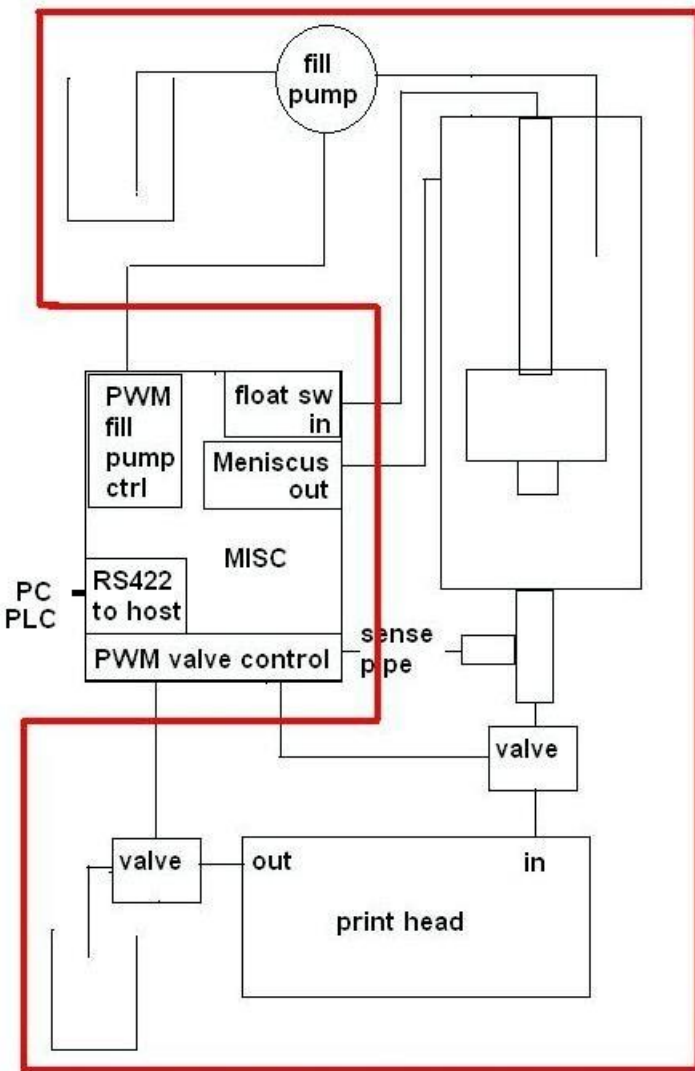
- The MISC is developed from the core functionality of the Megnajet CIMS (Compact Ink Management Systems). It can be configured in various ways to suit individual customer requirements but still deliver proven stable, reliable and industrialised meniscus control, irrespective of header tank design, fluid level or tank location. This is achieved by our integrated hydraulic fluid measurement system which automatically compensates the meniscus as fluid levels inside your reservoir change, whether this be a syringe chamber as in our Labjet system or during a fill cycle on the MISC unit.

- The MISC is a fully integrated system. It has its own built-in 10K+ hour life brushless air pump, removing service life issues to integrators. This means that there is no need for costly external air sources or vacuum pumps as with many systems. Head maintenance is simple and controllable due to the system's ability to pressure purge (max .800mbar) as part of its primary functionality.

- The MISC is extremely compact.
- All you need to complete your system is a 24v 1 amp PSU and a RS422 connection for reliable, industrialised control via PC, PLC or head drive electronics (USB to RS422 adapters and power adapters can be supplied on request).
- The Simple ASCII based command set allows for easy integration into OEMs own PC, PLC or Drive electronics software (standalone PC GUI and vb.NET integration library are also available on request).
- Available in 250mL/min (for low pneumatic volume systems such as those based on syringes) or 1.5L/min air flow for full industrialised solution, makes the MISC ideal for integrating into your systems whatever their size.

Optional features for full ink system control

- Opto isolated Tank level sensor input.
- Opto isolated 1 amp PWM output for variable speed remote tank fill.
- 2 opto isolated 1 amp PWM controlled outputs (for heat reduction) for head lock off valves enabling:
 - Lock off of heads on shutdown/power failure to prevent the loss of inks.
 - Priming control on 2 port heads.
 - The head to be closed, the ink system pressurised and then released to enable hard purging functionality up to 1000 mbar.



Block diagram of typical gravity fed print head with MISC (setup with de-airing valve).

Everything in the RED marked area is supplied by the OEMs/Integrator.