

Instrowest was established in 2006 to provide quality instrument and electrical contracting services to the mining and mineral processing industries, with a strong focus upon safety. Instrowest can provide a comprehensive installation, maintenance, calibration, and repair service to all sites within Western Australia. Instrowest can also help in solving any instrument or control related problem that you may be facing.

At Instrowest we are committed to providing reliable, high quality sales and service while maintaining respect, integrity and trust to our clients and those within our organisation. We aim to provide this service by understanding our client's needs, wants and constraints while finding a solution that is fit for purpose.

At Instrowest we will always maintain an innovative approach that sets us apart from others; if a traditional method is not suitable or ineffective, we will endeavor to find an alternative or innovative approach to achieve our client's goals.

**Instrowest Pty Ltd**

Phone 08 9500 9120

Fax 08 6323 1115

Email

[admin@instrowest.com.au](mailto:admin@instrowest.com.au)

Web

<http://www.instrowest.com.au>

## MMG – Golden Grove

### CMC Manifold Upgrade

Instrowest was approached by our client to create a solution for the replacement of their CMC dosing system to meet further demands and maintainability.

Instrowest scoped, quoted, designed, built and commissioned a dosing manifold from start to finish. The construction and pre commissioning phase was completed in the workshop before being sent to site. Commissioning on site took place in December 2014.

This manifold was built using all high quality parts; Swagelok tubing and fittings were selected for their ease of disconnection and reconnection. CMC is a solution which can block up, thus having fittings that can easily be removed and put back together is a huge advantage in comparison to the dosing manifolds currently on site.

The new manifold consists of 5 complete dosing points and 3 spare dosing points for future expansion. These are designed with differing flow rate abilities as specified by the client. Each dosing point consists of a Yokogawa AXF flow transmitter Bray control valve and lockable isolation ball valves. Each flowmeter and valve can be manually bypassed to allow for online maintenance. Each dosing point, as well as pressure control can be controlled remotely by the sites Yokogawa DCS system.



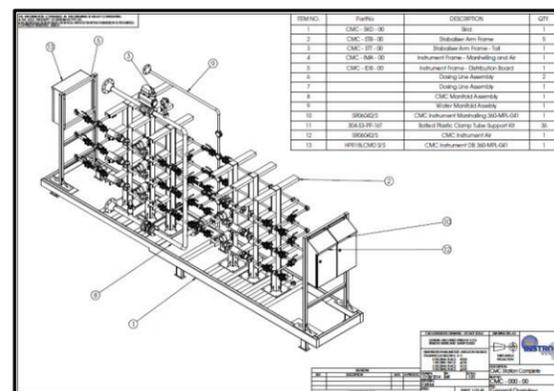
Full valve sizing was conducted by the Instrowest team; this enabled us to select the right size valve for the particular flow rate for each dosing line, V-Notch ball valves to give accurate control at both low ranges of flow and high ranges and being ball valves these also have the advantage of reduced chance of blockage as well as self-cleaning in their action.

When delivered to site this was accompanied by two full folders containing all the calibration sheets, data sheets, Instrument manuals, CAD drawings and proposal documents.

## Results

During commissioning this manifold performed very well; the unit was tested to full capacity through each dosing line and achieved maximum flow rates.

If you have a dosing system you would like redesigned or manufactured please let the team at Instrowest know.



## Client Feedback

*The CMC manifold that was designed and built by Instrowest although in its early stages of service has so far been a success. It was well aligned to Golden Groves design standards and specifications and is the most flexible and maintenance friendly reagent manifold we have on site. Through a simple valving arrangement it enables easy isolation and bypass of instruments for maintenance on-line, and quick and simple flushing arrangements.*

*With the process demand for CMC being very dynamic and dependent on fluctuations in ore type, it is hard to quantify how the manifold has improved cost savings over our primitive former manifold, however I have no doubt that from accurate real time flow measurement, and simple flow control adjustment of dosing rates from the control room, operators are more likely to adjust the CMC use as required, which in turn delivers savings and improves product recoveries.*

*I would engage Instrowest again on our next reagent manifold replacement or project.*

*M.Croft – Electrical Supervisor*



If you would like Instrowest to assist with your next project please contact us.

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