

Another IMS success story in Singapore: Elster-Instromet wins over yet another key account!

Good news from Asia: EISB has successfully commissioned and started up a USM custody transfer metering station at Soxal's new hydrogen plant (J10) in October 2011 at their Jurong Island site. Soxal, a subsidiary of Air Liquide, is the largest industrial gas company in Southeast Asia and the leading supplier of gas and equipment to the Singapore manufacturing industry.

The J10 hydrogen plant was constructed primarily to supply hydrogen to Neste Oil's renewable diesel plant in Tuas, and has a capacity of 100,000 Nm³/hour. Over 30 km of pipework were installed to carry the hydrogen gas from the J10 hydrogen plant to Neste Oil's plant – the longest pipeline project in Soxal's history. Thus, an accurate metering system was required to measure the key raw material, natural gas. EISB was selected for Phase 2 of the project which involved supplying a demanding fiscal metering system with an operating pressure of 40 barg due to increased production requirements.

The EISB metering system consists of a 2 x 100% 8" ANSI 600 fiscal metering skid with a Z-configuration for proving, together with an analyzer unit and control panel. We were able to supply the customer with a fully integrated metering solution (IMS) by integrating high-accuracy Elster-Instromet products such as two 8" Q.Sonic 4C ultrasonic meters, two FC 2000 flow



Front view – skid inlet

computers and an EnCal 3000 gas chromatograph. As such, our IMS was able to optimize and improve the overall metering system performance and accuracy. The metering PLC served as a gateway to the customer's DCS/SCADA system and for valve control management.

The compact fiscal metering system was designed, engineered and manufactured by our EISB team based in the Kuala Lumpur factory. Together with the EISB Singapore team, we worked in exceptionally close collaboration with the customer in order to meet the tight project schedule. One of the key challenges was to design a system with a small skid footprint to accommodate ESDV, filter, analyzer shed, valves, etc. without sacrificing performance, reliability or ease of operation and maintenance. The customer greatly appreciated Elster-Instromet's efforts and looks forward to working with us again in the near future.

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Back view – skid outlet