



Case Study: Process Fluid Monitoring in Aromatics Refining



ONE SERIES 1XSWLL



CHALLENGE:

Hanwha Total Petrochemical Co., LTD (HTP) operates a large-scale energy and petrochemical complex composed of 15 separate plants in the Daesan Petrochemical Complex in Korea. HTP completed a facility expansion in 2014 that added a second aromatics plant and a CFU (Condensate Fractionation Unit), enabling the company to produce energy products including gasoline, diesel fuel, jet fuel, fuel oil.

HTP had a large number of electromechanical switches with output tied directly to the distributed control system (DCS). With switches from every conceivable supplier, spare parts inventory was expanding and maintenance was becoming increasingly difficult with so many product variations.

SOLUTION:

Upgrade the installed base of mechanical level switches from SOR, CCS, NAGANO, TOKYO KEISO AND MAGNETROL to a single model: One Series 1XSWLL.

By using the same wiring and same control scheme, the electronic switch upgrade takes only minutes per point and is cost-effective when compared to upgrading with transmitters. UE's low power circuitry allows the device to run on the power drawn from a DCS/PLC while using the same two wires that previously connected to the switch. There is no need for any wiring or conduit infrastructure changes, saving significant time and money for this upgrade project.



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Utilizing already in place wiring (2-wire) for easy install



Fast Deployment and replacement



Cost-effective when compared to upgrading to transmitters

