

## SOLUTION STORY

### S600 Battery Failure & Upgrade

# MetSolv

METERING SOLUTIONS & VALIDATION

#### THE SITUATION

A client was receiving numerous battery fail alarms on their S600 flow computer. The backup battery retains power to the flow computer in the event of a power outage, without an effective backup battery the flow computer configuration would be lost and the flow computer would not be able to boot back up.

The client attempted to replace the battery as per an Emerson battery backup changeout procedure, however when rebooting the S600 flow computer the screen displayed "RESETTING" and failed to boot up.



#### THE INSIGHT

Upon MetSolv's investigation it was deemed the configuration and the firmware had been lost and the card required repair.

MetSolv's experience of the S600 provided us with the knowledge to recommend upgrading the two S600's to S600+'s, which involved installing upgraded CPU boards. The new CPU boards have push in mounted batteries rather than a soldered battery for ease of replacement.



#### THE SOLUTION

To ensure that flow through the metering station was maintained MetSolv developed a testing schedule that would ensure no down time and that flow continued to be accurately measured.

A site acceptance (SAT) manual was developed to provide a documented testing approach during MetSolv's site work.

Flow computer functionality testing was completed to confirm the flow computer operation was maintained.

#### THE RESULT

All works were executed safely and in full compliance with all our clients' requirements.

Client operational reliability improved, the flow computers now have the latest S600+ hardware which will future proof the flow computers for the next 10 to 15 years and enable easier preventative maintenance to be performed.

The client is keen to maintain and expand our services.

PROVIDING CONFIDENCE IN MEASUREMENT QUALITY

