



December 28, 2017

## Customer

One of the largest manufacturer of electromagnetic flow meters, water quality sensors and irrigation controllers in Australia and New Zealand.

## Problem Statement/Requirements

The customer wanted to nullify the dependency on monopolistic source for supply and engineering, reduce field operations cost in sites where the device was to be deployed and reduce engineering support cost.

## Solution Methodology

The SFO team analyzed the existing product and extended support for coming up with new product model with IoT feature. The team developed a low power operation electromagnetic flow meter and wireless communications module to transfer remote field data through cloud network, and the final product had the following features:

- Enhanced on-board storage to reduce field data collection intervals
- Enhanced file system on existing controller to support high capacity storage
- Simplified field diagnostics and configurability to support customer specific parameters
- Field utility for use by field technicians
- Windows based easy to use configuration
- Secure role based access
- Low power operation (Solar)
- Diagnostic data and alarms
- User configurable data logging
- User configurable on/ off times

## Brief description of product:

### a) Hardware

- Microcontroller/microprocessor : M16 Controller
- 128 X 64 Graphical LCD

### b) Software

- Tasking Compiler
- IDE : Eclipse (Java & Web500 Application)
- Operating System : Windows 7/10/Legato

### c) Compliance

- CMMI ML5

## Impact

- Our solution and extended support is helping the customer to get the optimal benefit towards developing their flow meters.

## About SFO

SFO Technologies Pvt Ltd, the flagship arm of the diversified conglomerate, the NeST Group provides end-to-end design-engineering-software-manufacturing solutions to clients across geographies such as the USA, Canada, Europe, Middle East, South East Asia, Japan, Australia, and India. SFO has invested in building competence, scale and standards compliant process framework, in PCBA, fibre optics, Cable & wire Harness, Magnetics, High Level Assembly, VLSI design, embedded software development, etc. SFO's capabilities transcend the plain vanilla "Build-to-Spec or Build-to-Print" EMS and our ODM+ solutions are rapidly re-defining standards for the OEMs across Aerospace & Defence, Communications, Transportation, Healthcare and Energy & Industrial domains. .



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