

# Cyplex TIC TOC Cathodic Protection Networked Telemetry System

Cyplex TIC – 034X Cathodic Protection Units  
Serial Numbers: P0003 to P0007.

These TIC units are the first to incorporate 3G connectivity and isolated voltage measurement channels suitable for Cathodic Protection Monitoring. They have been pre-configured to suite the Watercorp Richardson Road Site but this can be changed using the TIC Configuration Tool allowing the customisation of each TIC unit.

The channel allocation is as follows:

| Channel | Type                  | Name       | Connector      | Wire Colour        |
|---------|-----------------------|------------|----------------|--------------------|
| 1       | Pulse                 | Pulse CH-1 | NOT AVAILABLE  |                    |
| 2       | Pulse                 | Pulse CH-2 | NOT AVAILABLE  |                    |
| 3       | Pulse                 | Pulse CH-3 | NOT AVAILABLE  |                    |
| 4       | Pulse                 | Pulse CH-4 | NOT AVAILABLE  |                    |
| 5       | Voltage +/-10V Range  | Current    | 8 pin Male LHS | BRN +<br>BRN/WHT - |
| 6       | Voltage +/-10V Range  | Potential  | 8 pin Male LHS | ORG +<br>ORG/WHT - |
| 7       | Voltage +/-100V Range | Voltage    | 8 pin Male LHS | GRN +<br>GRN/WHT - |
| 8       | Voltage +/-100V Range | Spare      | 8 pin Male LHS | BLU +<br>BLU/WHT - |

## SIM Installation.

The units are fully programmed with the Richardson Road parameters. They are currently enabled and the unit is logging. A Telstra Next G SIM card with access to the "telstra.internet" APN is required to be installed. Remove the metalwork. Place the unit upside down on a flat surface. Remove the 6 M4 PAN bolts. Then carefully open the unit. Hinge the lid over on to the side where the wires are visible leading to the small battery mounted on the lid. Insert the SIM card into the holder on the main PCB. Make sure the SIM holder is locked. Then reassemble the unit. Make sure the gasket is in place in the gland guide. Stretching the gasket may assist in relaxing it so that fitting is easier. Tighten the lid evenly similar to tightening a head gasket. Do not over-tighten as this can damage the housing. Use a hand operated screw driver and tighten until firm.

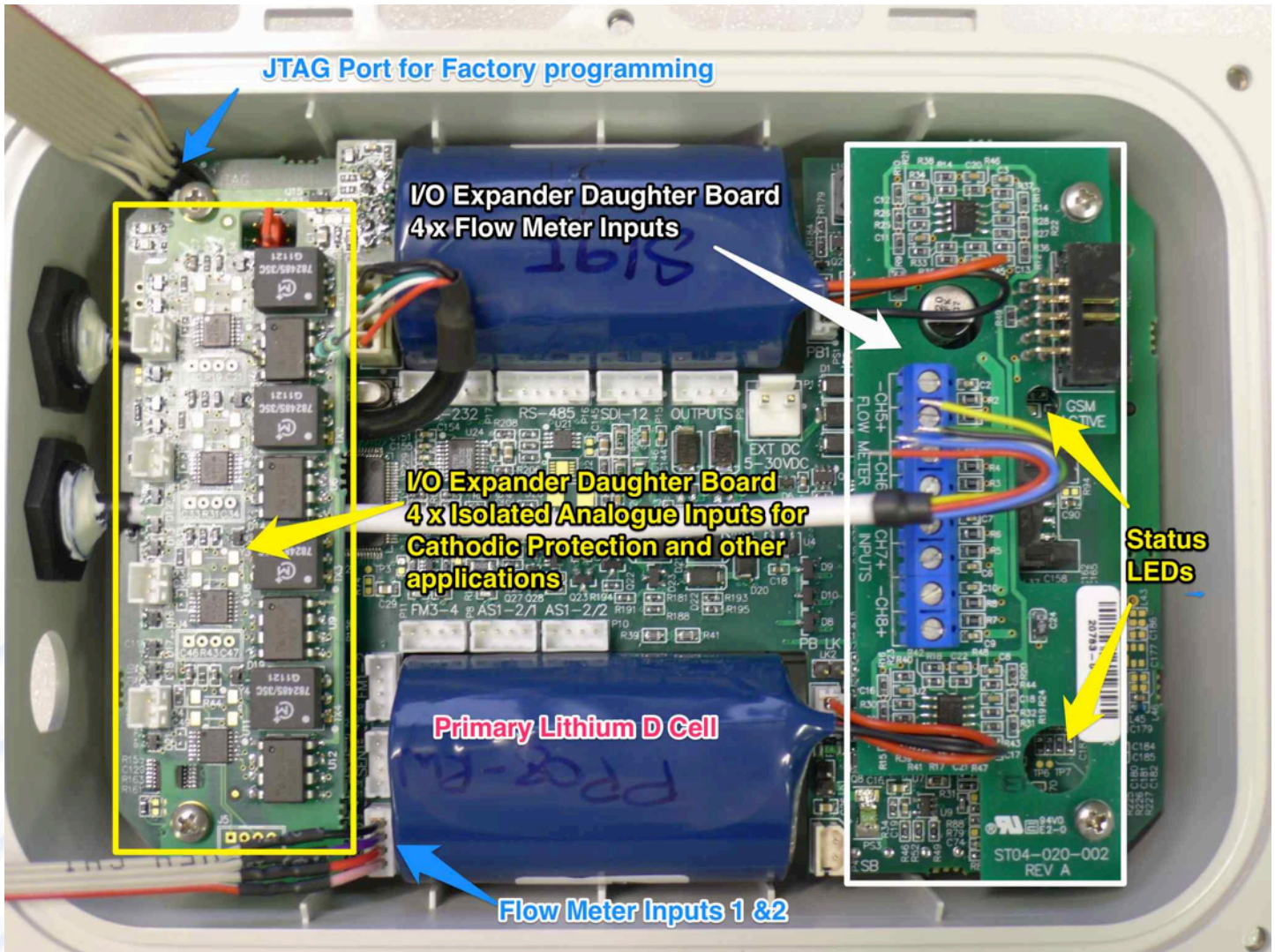


Fig 1 : TIC with Cathodic Protection Option Board and Flow Meter Option Board fitted



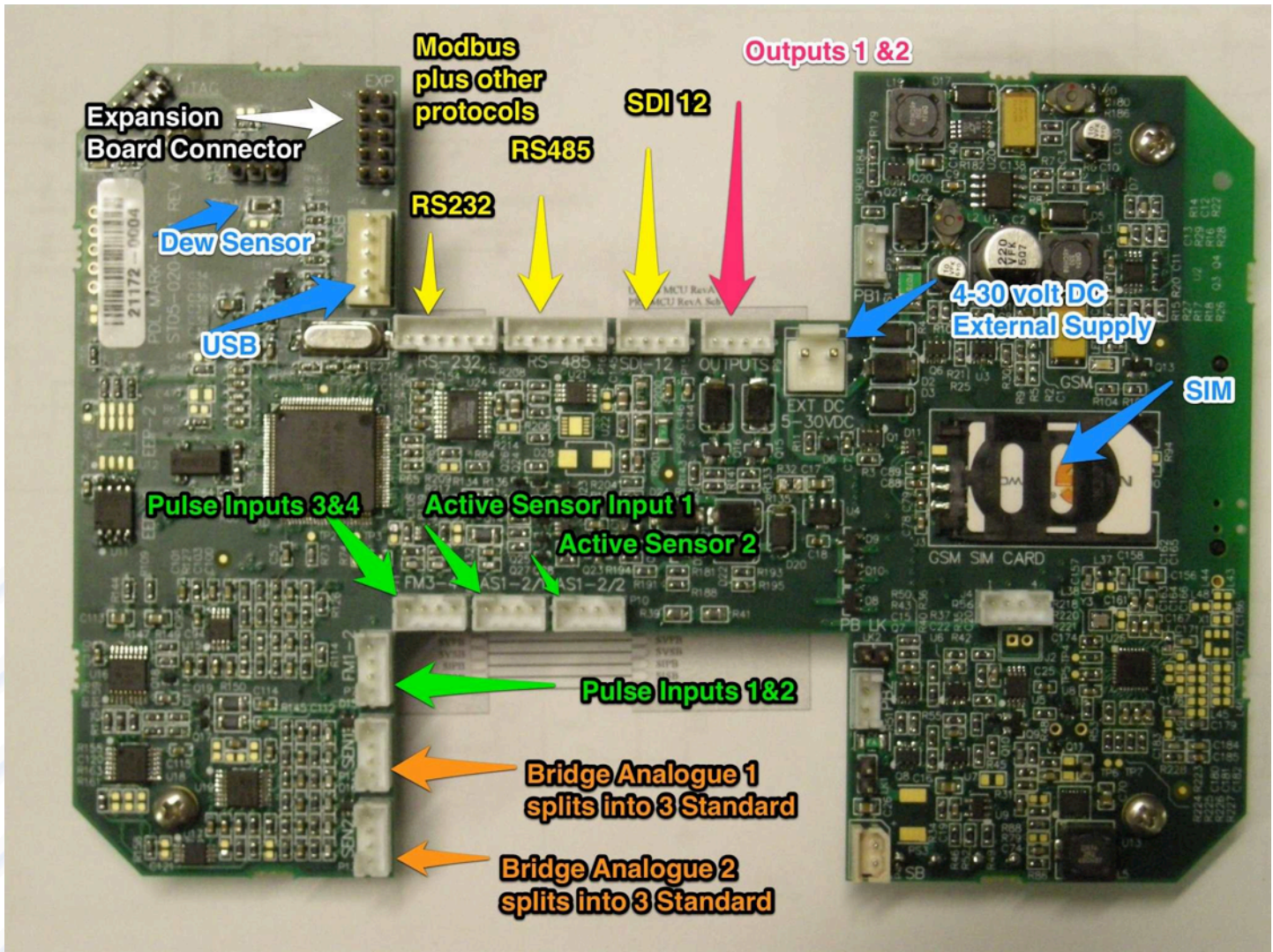


Fig 2 : TIC Mother Board showing key locations and connection ports