

## Specifications for Intake Sub or Inter-Tie Advanced Power Quality Analysers

Typical uses might be:

- Main incomers, Inter-Ties or feeds to sensitive equipment. e.g. medical centres, data centres, training simulators, laboratories etc.

When choosing a Power Quality Analyser, check how the vendor's product specifications compare this this suggested set of minimum requirements for a Power Quality Analyser.

- Operating temperature range of  $-25^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$ .
- Circuit boards to be tropicalised.
- Enclosure rating of...IP52 or better.
- Industrial Grade Components
- Exceed 3 years Manufacturers Warranty
- Australian "C" Tick Approval
- Backlit Colour LCD Display Screen – min 640x480 Resolution
- Metal case
- Panel mount 192mm x 192mm
- IEC 62053-22 Class 0.2S accuracy for KWH (1% to 120% of In.)
- Starting Current less than 0.1% of In.
- 4GB or more of on board memory
- Neutral Current (I4), Ground Current (I5)
- V4 input
- VLN and VLL per phase and average
- Current per phase and average
- Frequency
- KW per phase and total
- KVAR per phase and total
- KVA total
- PF per phase and total
- KVAH
- KWH import/export
- KVARH import/export
- Demands and TOU
- Wave form recording of 512 Samples per cycle for 10 cycles for V& I
- 63<sup>rd</sup> Individual Harmonic on board and 512<sup>th</sup> by software
- Harmonic Power and Energy to 63<sup>rd</sup>
- SOE and Min/Max log
- PQ log for Sags and Swells, Transients and Flicker
- 2 x Ethernet (100BaseT or 100BaseFX) and 2 x optically isolated RS485 ports
- Modbus RTU, Modbus TCP and Ethernet Gateway protocols
- Battery backed real time clock
- V and I Unbalance
- V and I THD
- 8 DI (self excited) and 4 DO, 4 Relay Output
- Optional IRIG-B input

