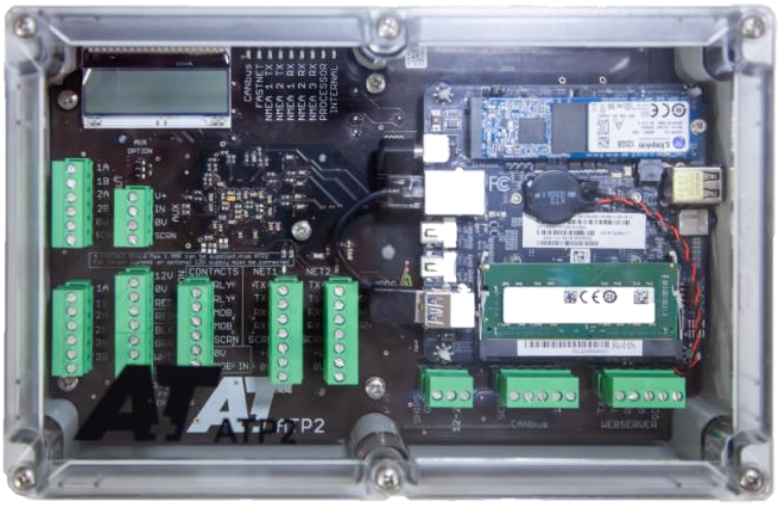
ATP2X ADVANCED PROCESSOR

ATP2X

Advanced performance instrument system based on an ethernet network

A+T 5 way marinized Ethernet Switch



The ATP2X is the advanced version of the well proven ATP2 processor with the following additions:-

- Additional Ethernet port dedicated to two way MODBUS communication with ship's plc (typically Alarm & Monitoring system)
- Fast internal logging of all variables and sensor at 100Hz
- Node-RED layer allows infinite level of customisation either by user or with help from A+T

- Single ethernet cable through the yacht links all sensors and displays which minimises wiring
- No practical network length limits
- Very powerful processor – instrument calculations running at 100Hz
- Web-interface for all commissioning, calibration & diagnostics
- 12-24V power

The ATP2X system combines the ease of use of a modern web-server based system with performance beyond that of existing performance systems.

- Fast boot time, less than 20 seconds from power on to full function
- Integral LCD display of IP address & status, comprehensive diagnostic LEDs
- Webserver connection to any computer for all settings, configuration and monitoring of internal computations. Allows A+T to support over Team viewer
- No limit to number of displays that can be connected on system and no practical length limitation on cabling
- Integral heel measurement allows for heel compensation of wind and leeway model
- Mast motion correction from internal rate gyros
- Unlimited Loadcell and analogue channels; individually labelled and configured

Warranty and Support

- 3-year warranty, see details on A+T website
- 24/7 support

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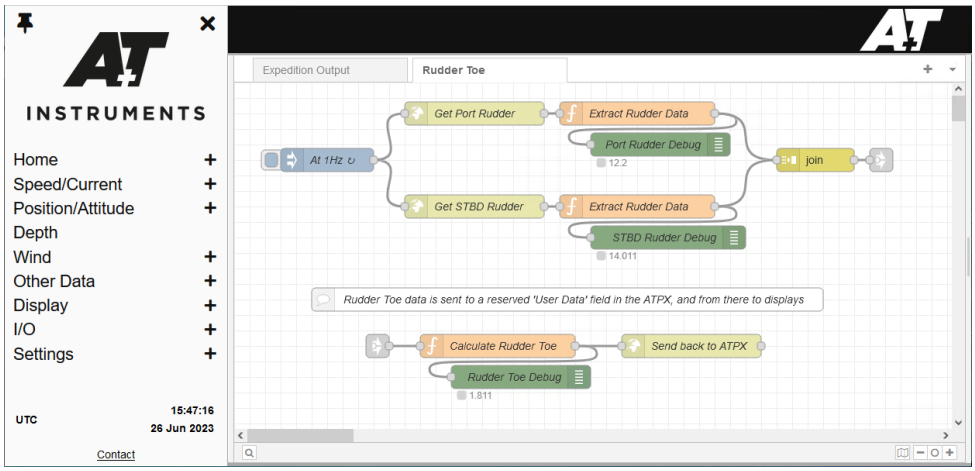

Example Node-Red page

Technical

The heart of the system is the ATP2 running at 2.6 GHz, 128GB of solid state drive & 4GB RAM

- Single Ethernet cable runs through yacht. Power on this cable runs sensor interfaces
- A+T 5 way switch used to link all network branches and to add additional power (12 – 24V) where needed for displays
- Inputs/outputs built into ATP2:-
  - 3 Serial/NMEA0183 input and 2 output (selectable baud rates)
  - 1 Analogue channels with 5V & 12V reference supply
  - 2 separate alarm relays (general and MOB)
  - 1 N2k compatible for sensor input and data output
  - 1 Fastnet connection to support existing B&G displays and sensors
  - 1 Ethernet connection for external computer
  - 2 Ethernet connection for A+T BUS
  - Integral heel, pitch, rate gyros and barometric pressure
- All configuration and viewing of internal calculations by webserver
- Separate interface units are connected where convenient:-
  - Speed/Temp & Depth (170kHz) (adds a further NMEA0183 input)
  - Speed/Temp (adds a further NMEA0183 input)
  - Wind
  - NMEA0183 – adds further serial inputs and outputs
  - Analogue 4 x 0-12V inputs plus 1 x 0-20mA
  - Loadcell amplifier