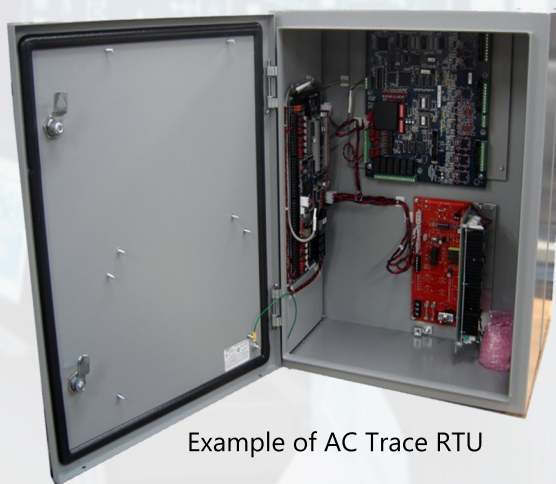# AC Trace
Digital Waveform Capture

Field AC Analog Trending, Capture, Analysis and Display

AC Trace is a Digital Fault Recorder (DFR) for 3-phase AC monitoring of voltage and current in substations or on distribution feeders. It is an application that runs on QEI's 6ACP6 processor and is designed to stream real-time analog values and transmit captured fault data to QEI's QTrace workstation display and analysis software.
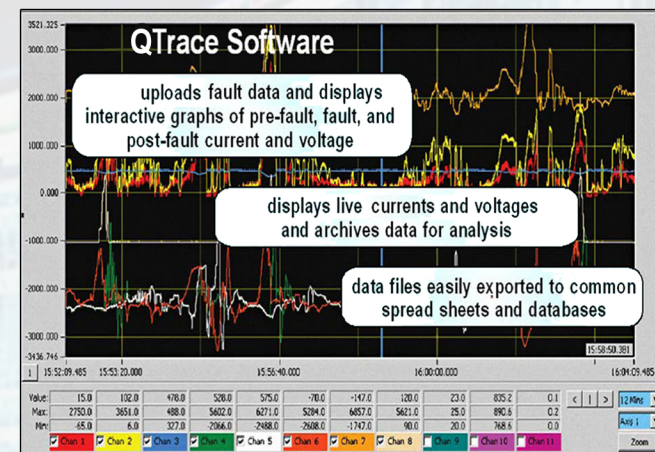
QEI's QTrace Analytics Software can provide real-time viewing of up to twelve simultaneous analog traces in a user-friendly Windows® environment at any designated operator console on your enterprise network. This real-time data is streamed directly from the 6ACP6 to the QTrace software module and subsequently to all active consoles.

In addition to real-time values, the **AC Trace** application will capture fault values at the remote site, and store them for subsequent reporting to the QTrace workstation. Fault records may also optionally be saved to a USB drive for expanded storage capacity. The stored fault records are uploaded from the 6ACP6 directly to the QTrace software for detailed viewing of the fault profile waveform. QTrace software also provides tools for further fault waveform analysis.

Monitors 14 AC Analog Inputs [2 Auxilary]
- (2 Feeder-6 Voltage & 6 Current or 3 Feeder-3 Voltage & 9 Current)

- 12 Status Inputs

- 4 Control Outputs (8 Relays)

- 2000 Samples Per Second

- 0 - 4000 Pre & Post Event Samples (System-wide Configurable)

- 200 Sample files may be stored locally without additional USB storage

Data Transfer can be via the SCADA Protocol
- (such as DNP3 or Modbus) or via the Network Interface

- Samples may be Streamed at a Rate of 2000 SPS over TCP/IP Socket for Real-Time Trending

- 120 VAC, 24/48 VDC or 125 VDC Powered with NEMA 4 Enclosure

- Record up to 24 hours of data at a user configurable rate of 1-2000 samples per second

- Create virtual channels through use of formulas and math equations to analyze analog traces in real-time

Example of AC Trace RTU