

Kawhia Timing Unit

When your source and receiver equipment are on separate vessels separated by miles of ocean, the Kawhia Timing Unit is the precision timing system to ensure that both your data recorder and energy source equipment start synchronously. Communicating via radio link¹ and configured as a Master, Slave or Secondary Master on each vessel where the seismic equipment is located, the Kawhia Timing Unit initiates and validates the fire response times from both recorder and energy source. Output data consists of start time, confirmation times and the difference in confirmation times between the recorder vessel and the energy source vessel. A quality oven controlled GPS referenced oscillator provides timing accuracy to sub microsecond levels. Configuration of each module is simple with a menu driven LCD display and front panel keypad. Combined with configurable outputs for interfacing into third party hardware, and ASCII output format of the time data strings for archiving on a separate PC, the Kawhia Timing Unit is a flexible and quality solution for those customers wishing to monitor, quality control, and archive their source and receiver start and confirmation times on a shot by shot basis



- * Precise synchronization of system start on recorder and source boat
- * Configuration from front panel
- * System start and confirmation start time accurate to +/- 0.5 microsecond
- * Timestamp resolution to 0.1 uSec
- * Reports start time, confirmation time and confirmation time differences between master & slave modules
- * Menu selection for signal polarity
- * Mode selection for master, slave or secondary master configuration
- * BNC outputs configurable between TTL output or isolated closure
- * Six independently programmable system start outputs
- * BNC input for reading confirmation time-break
- * Subminiature DB9 connectors for GPS Start, PC Archiving and Radio Modem
- * Operates 110-240 volt supply

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NAV 05:40:57.788000 FTB 05:40:57.7891547 REM2 FTB 05:40:57.7911376 Diff +0019829
NAV 05:41:15.707000 FTB 05:41:15.7081414 REM2 FTB 05:41:15.7101376 Diff +0019962
NAV 05:41:30.045000 FTB 05:41:30.0461411 REM2 FTB 05:41:31.0481374 Diff +0019963
NAV 05:41:47.350000 FTB 05:41:47.3511410 REM2 FTB 05:41:47.353137 Diff +0019968
NAV 05:42:04.634000 FTB 05:42:04.6351413 REM2 FTB 05:42:04.6371374 Diff +0019961
NAV 05:42:20.195000 FTB 05:42:20.1961474 REM2 FTB 05:42:20.1981378 Diff +0019904
NAV 05:42:35.532000 FTB 05:42:35.5331412 REM2 FTB 05:42:35.5351376 Diff +0019964
NAV 05:42:50.445000 FTB 05:42:50.4461414 REM2 FTB 05:42:50.4481507 Diff +0020093
NAV 05:43:47.626000 FTB 05:43:47.6271411 REM2 FTB 05:43:47.6281376 Diff +0009965
NAV 05:43:57.857000 FTB 05:43:57.8581410 REM2 FTB 05:43:57.8591376 Diff +0009966
NAV 05:44:06.783000 FTB 05:44:06.7841412 REM2 FTB 05:44:06.7851377 Diff +0009965
NAV 05:44:23.237000 FTB 05:44:23.2381410 REM2 FTB 05:44:23.2391371 Diff +0000011
NAV 05:44:33.233000 FTB 05:44:33.2341410 REM2 FTB 05:44:33.2351376 Diff +0009963

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¹ Radio modems available separately