HAZLOC TRIO® H8-Series is right size for a long day.

The Hazardous Location environment has met its match! The TRIO H8 provides the best-in-class battery life to get through a long day in the harshest plant environments while maintaining a light and rugged, ergonomic style.

The 8” tablet is designed to fit comfortably in one hand! The TRIO H8 is less than 2 lbs. and less than 1” thick, with a concave, non-slip case that makes it easy to grip. The brilliant 8.1” capacitive-touchscreen is incredibly rugged with minimal glare and has four advanced touch modes for rain, gloves, pen, and digitizer operation.

With Window® 10 Enterprise installed, you are ready to connect the TRIO H8-Series to your network or operate as a stand-alone device, supporting your productivity applications and multiple language options.

TRIO is WATCHMAN™ Portal-enabled and ready to connect to the hosted, WATCHMAN Data Center for unparalleled program visibility and infrastructure.

FEATURES INCLUDE

- 8.1” LCD Capacitive Touchscreen with digitizer stylus pen, rain-mode or glove-mode operation.
- 10-hour standard battery, plus optional 10-hour SnapBack add-on battery packs.
- Powerful Intel® Quad-core Atom™, 1.6 GHz Processor, 4GB LP DDR3 RAM, and 128 GB SSD for the ultimate performance.
- Modular Bluetooth® integration with TRIO DP-2H data acquisition hardware for simple and safe in-field vibration data collection.
- Optional Total TRIO® database hosting, included diagnostic software and feature upgrades, analytical second opinions, plus 3-years all-inclusive service and support included.
TRIO® H8-SERIES
Vibration Data Collector // Field Analyzer

SYSTEM OVERVIEW
• Triaxial vibration data collector
• Industrial Windows 10 Enterprise 64-bit (CBB) tablet PC controller
• Wireless, modular-designed data acquisition unit (DP-2H)
• Optional handheld laser tachometer
• Safe, flexible carrying options
• HX8 includes embedded ExpertALERT™ (term license)
• H8 includes embedded ViewALERT™ onboard analysis software (requires ExpertALERT, StandardALERT™, or WATCHMAN™ Reliability Portal)
• Survey File Transfer Exchange or optional ALERT replication or WATCHMAN
• Sync Utility for synchronization over multiple devices or ALERT systems
• 4-plane machine in-place balancing and advanced analysis options available

USER INTERFACE / DURABLE TABLET CONTROLLER

Physical / Environmental / Durability
• Size: 8.93” x 5.94” x 0.94” (227mm x 151mm x 24mm)
• Weight: 1.94 lbs (0.88 kg)
• Operating: -21C to +50C; Storage: -40C to +71C
• Humidity: 95% RH, non-condensing
• Rugged per MIL-STD-810G
• IP65, IEC 60529 rated; water, sand, and dust protection
• ANSI/ISA 12.12.01

Processor/Operating System
• Intel® Atom™ Quad-core x7-28750 1.6 GHz Processor
• 4 GB LPDDR3 system memory, 128 GB Solid State Drive (SSD)
• Genuine Windows 10 Professional CBB (64-bit)
• TPM v2.0 data security; NIST BIOS compliant

Battery
• Lithium-ion battery:
  • Standard battery: 7.4V, 4200 mAh capacity
  • SnapBack 2nd battery Life: 14.4V, 2100 mAh

Communication
• Wireless-AC 7265, 802.11 ac
• Integrated Bluetooth v4.0
• Optional 10/100/1000 base-T ethernet (expansion slot)

Inputs / Outputs
• 8.1” Capacitive touchscreen, 1280x800 resolution
  • IPS TFT LCD HD, 600 NITS, LumiBond® 2.0 sunlight readable
  • Plus Digitizer Pen, Rain Mode, Glove Mode
• RJ45 10/100/1000 LAN
• USB 3.0 port
• Micro-HDMI
• DC power input port
• Speaker, audio / microphone jack
• 6 button keypad (power, volume up, volume down, home, P1, P2)
• Rear-facing 8.0 MP built-in camera with autofocus
• On-screen QWERTY soft keyboard

TRIO DATA ACQUISITION / PROCESSOR (DP-2H)

Inputs
4 simultaneous sampled, fully phase matched, ICP programmable
Other Coupling: AC (for proximity probe connection)
AC Input Voltage Range: ±10V
AC Bandwidth: 0.5Hz to 40kHz
DC Bias/Gap Measurement: ±25V range for ICP bias voltage check and proximity probe gap measurement
Measurements: Acceleration, velocity (by hw integration), bearing demodulation (accelerometers), and displacement (proximity probes)
Gain Ranges: Gain steps 1, 2, 5, 10, 20 and 50
Digital trigger input: External trigger, tachometer speed, ordered data (by phase-lock-loop)

Processing
AC Measurements
ADC: 24-bit sigma-delta, simultaneous on four AC channel inputs, better than 104 dB dynamic range
Sampling Rates: 64Hz to 102.4kHz
Bandwidth Ranges: 0.5–25Hz, 0.5–40 kHz, protected by anti-alias filters
Data Block Lengths: 64 to 400,000 samples
Spectral lines: Up to 25,600
Noise Floor: Less than 0.2 μvolts per root Hz from 0.5-1000 kHz

DC Measurements
ADC: 16-bit multiplexed for bias voltage, process, and probe gap measurements, 0-10 kHz Bandwidth

Analysis Capabilities
Dynamic Analysis: Overall, Spectra, Waveform, Phase and Speed
Cross-Channel: Cross-power, Transfer Function, Coherence, Phase and Magnitude
Demodulation Function: Digital amplitude demodulator and Impact Demodulation for low speed detection
Averaging: RMS, Exponential, Peak Hold, Order Tracking, Synchronous Time and Negative Averaging
Number of averages: 1-1000
FFT Window Function: Hanning, Hamming, Rectangular, Flattop

Communications with Host Tablet PC/Controller
Wireless - Bluetooth v2.0 with EDR (1.5Mbps max)
Wired: USB user port (includes data stream and remote power to DP)

Power
Charging rate: 0.5A from USB PC input (4 hrs), 1.0A from USB wall adapter
Battery Life: 8 hours between charges (continuous collection)

Physical / Environmental / Durability
Dimensions: 6.18” x 3.62” x 1.81” (157mm x 92mm x 46mm)
Weight: 1.0 lb (450 grams)
Carrying options - Belt worn holster or shoulder worn soft pack
Operating Temperature: -10C to +60C
IP-65 rated; water, sand, and dust protection
4° drop per MIL-STD-810G
0 ~ 90% humidity per MIL-STD-810G
Compliance: CE, ETL Listed, Class 1, Division 2, Group A, B, C, D, T6

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