

TimeSync

The TimeSync module is a high-precision time-insertion and synchronization unit designed for lift control systems using G4 signalling and RS485 communications.



HIGH-PRECISION CLOCK ACCURACY

The TimeSync maintains highly stable timekeeping with a rated accuracy of ± 3 ppm, ensuring building-wide display synchronization with negligible drift.

BATTERY-BACKED REAL-TIME CLOCK

Using a standard CR1216 or CR1220 coin cell, the RTC continues running during power loss, maintaining seamless operation after system restarts.

FLEXIBLE INPUT & OUTPUT SIGNALLING

- 4-WIRE G4 Input from CONV-xxx / CX-BASIC
- G4 Output with inserted time signal
- RS485 Output for master/slave synchronization across lift groups

All incoming G4 signals are relayed while TimeSync seamlessly injects time information at 15-second intervals

RS485 MASTER-CLOCK MODE

When only 24VDC power is supplied (no G4 input), TimeSync outputs time-only signalling on both:

- G4 output
- RS485 output

This allows TimeSync to act as a centralized master clock for other TimeSync units or encoder boards such as CX-7016.

KEY FEATURES

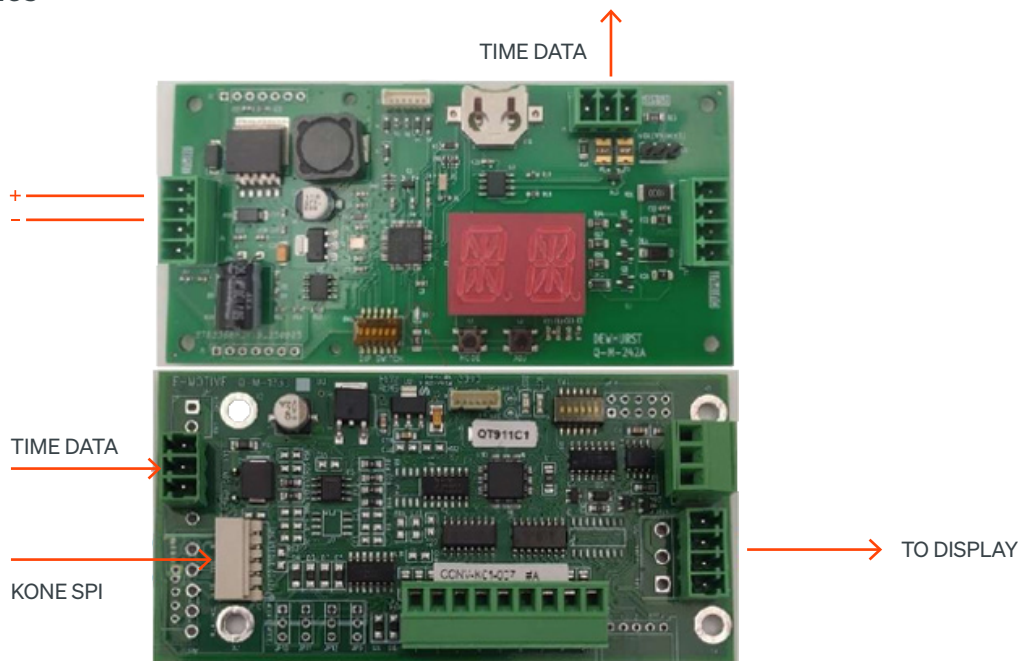
- High-accuracy real-time clock (± 3 ppm)
- Minimal time drift (0.26 seconds/day)
- Supports 4-WIRE G4 input \rightarrow G4 output with time insertion
- RS485 output compatible with legacy TimeSync products
- Internal battery backup using CR1216/CR1220
- Operates across -40°C to $+80^{\circ}\text{C}$ 15-second interval time-signal injection
- Suitable for lift groups requiring synchronized time displays
- Supports standalone RS485 master-clock mode
- Seamless integration with CONV-KO1-xxx, CONV-OT9-xxx, CX-BASIC-xxx, CX-7016, and other encoder boards

Technical Information

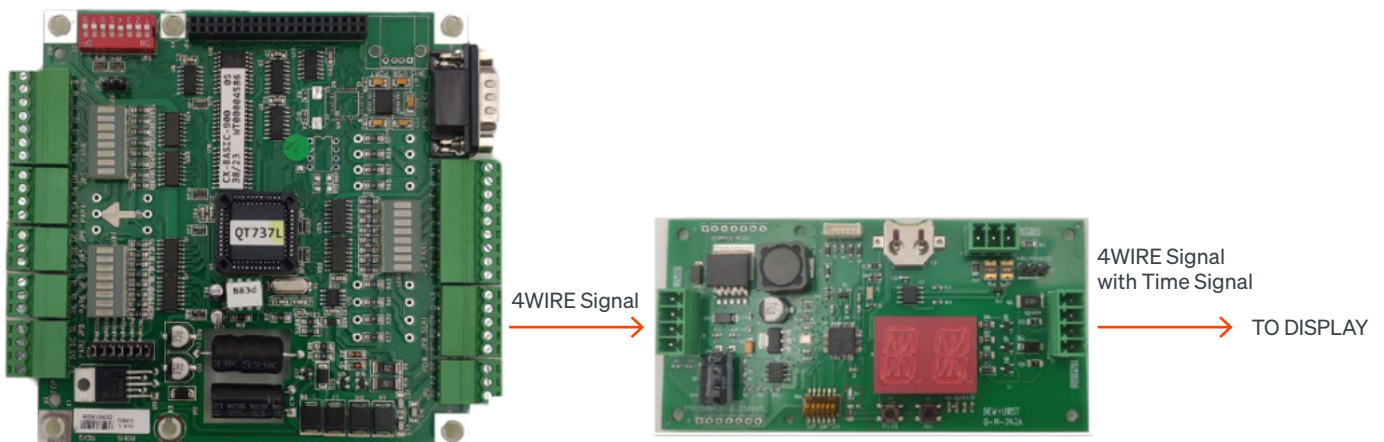
General Specification

Dimension	110 (L) x 55 (W) mm
Mounting Holes	3mm diameter, center is 4 mm from the edges
Battery	CR1216 or CR1220
Interface	4 WIRE input, 4WIRE output, RS485 input/output
Supply Power	24VDC +/- 20%

Interfacing Examples



CONV-KO1-007 Connection



CX-Basic Connection