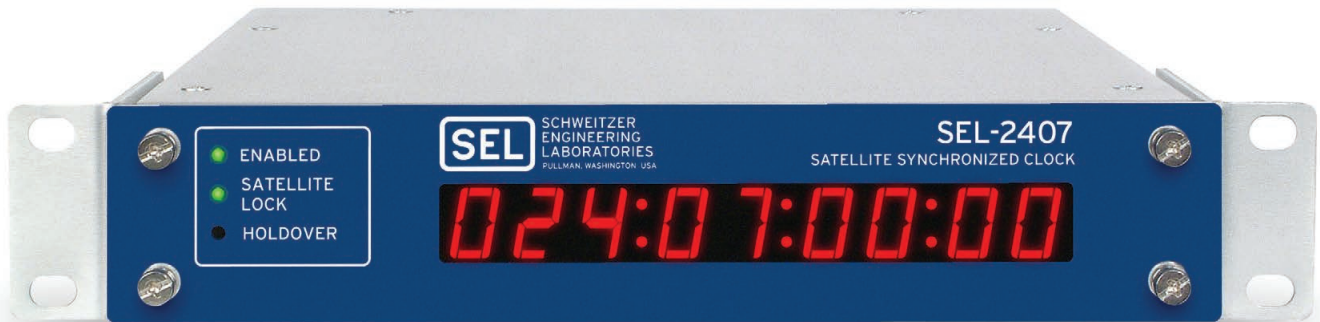# SEL-2407

Satellite-Synchronized Clock

Accurate time synchronization and display in harsh substation environments

- Synchronize relays, phasor measurement units, automation controllers, and other devices with ±100 ns average timing accuracy.

- Use one modulated and six demodulated IRIG-B outputs to synchronize intelligent electronic devices (IEDs).

- Apply the SEL-2407 with confidence—it exceeds IEEE C37.90 and IEC 60255 protective relay standards.
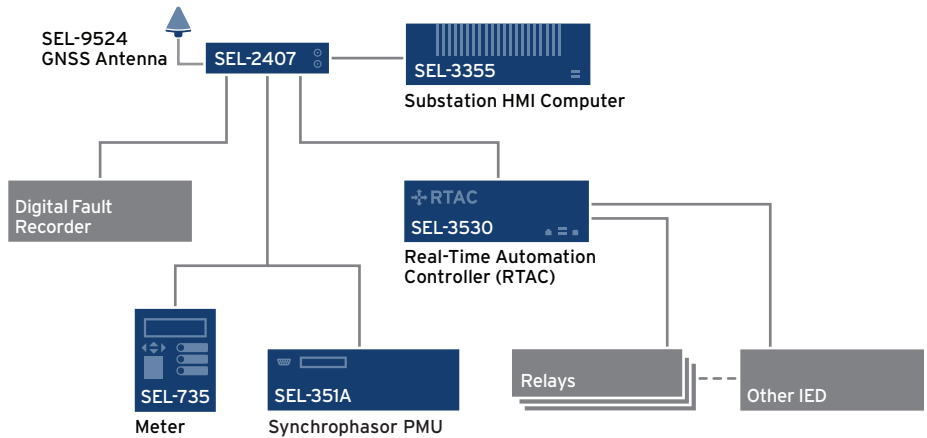
SEL

Features

Reliability

The SEL-2407 exceeds the IEEE C37.90 and IEC 60255 protective relay standards. It operates accurately from −40° to +80°C (−40° to +176°F), and its universal power supply operating range is 10–300 Vdc or 85–264 Vac.

Accuracy

Apply the SEL-2407 for synchrophasors, relay event correlation, and other high-accuracy timing applications. Its demodulated IRIG-B outputs with ±100 ns accuracy will meet existing and future timing needs.
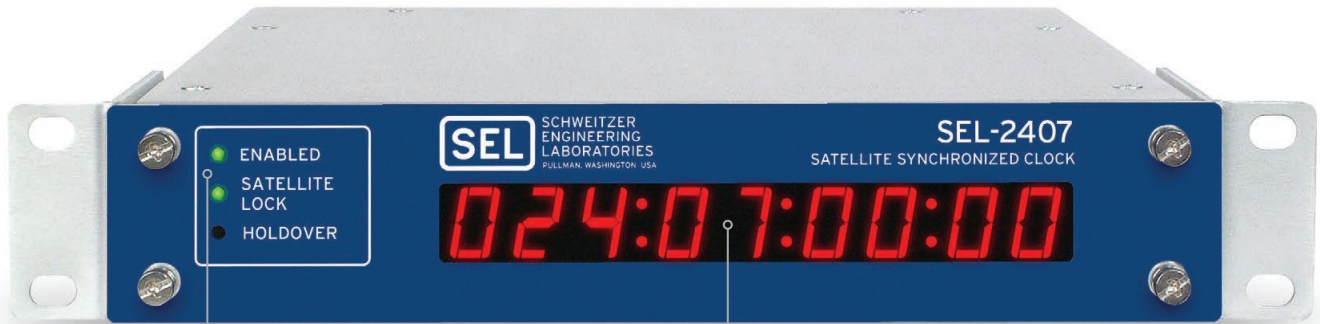
Low Price for High Functionality

The SEL-2407 provides six demodulated IRIG-B outputs, three of which can be set to either 1 PPS or 1 kPPS. It also includes a large LED time display. These features come standard, rather than as high-priced options.

SEL-2407 substation application example

Product Overview

Simple LED status indicators

Large, easy-to-read LED display

Antenna connection (TNC)

Wide-range power supply: 10–300 Vdc or 85–264 Vac

Optional fiber-optic port (ST), compatible with SEL-2812 Fiber-Optic Transceivers With IRIG-B

Six demodulated (three programmable) outputs (BNC)

Form C alarm contact or Form A pulse output

Modulated IRIG-B output

Serial port (DB-9)

SEL-2407 Specifications

General	
Display	LED time display
Time Ports	EIA-232 serial port
	Optional ST fiber-optic port
	One modulated IRIG-B output
	Three demodulated IRIG-B outputs
	Three programmable demodulated IRIG-B outputs (IRIG-B, 1 PPS, or 1 kPPS)
Environmental	−40° to +80°C (−40° to +176°F) operating temperature
	IEEE C37.90 compliance
	IEC 60255 compliance
Alarm Contact	Form C, 6 A
Power Supply	18–300 Vdc or 85–264 Vac
Accuracy	Demodulated IRIG-B: ±100 ns average, ±500 ns peak
	Modulated IRIG-B : ±1 µs peak
	PPS output: ±100 ns average, ±500 ns peak

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