

Generator Busbar Synchronization Meter

Synchronization meter designed for generator and bus bar synchronization. It features adjustable delay, phase difference (θ) and voltage difference (U) settings.



ADDITIONAL IMAGES



Product Overview

Advanced Synchronization Monitoring

The SQ0214 is a microprocessor-based synchronising unit designed to measure phase differences between a bus bar and a generator. It supports both manual and semi-automatic synchronization installations, serving as a versatile replacement for dual voltmeters and dual frequency-meters. The integrated LCD provides real-time monitoring of voltage and frequency for both the generator and bus bar, while the LED circular display offers immediate visual feedback on phase alignment.

Technical Specifications

Standard Phase Resolution	20 °el
Sync Range Phase Resolution	5 °el
Adjustable Delay	0.1 to 1.0 seconds
Phase Difference Adjustment	2 to 20 ± degrees
Voltage Difference Adjustment	1 to 10 ± Un%

Compliance and Safety

Safety Category	CAT III
Maximum Input Voltage	400 V
Auxiliary Power Input	24 V

Display Features

Measurement Parameters

- Generator Voltage (UGEN)
- Bus-bar Voltage (UBB)
- Generator Frequency (FGEN)
- Bus-bar Frequency (FBB)
- Phase Difference ($^{\circ}\text{AE}$)

Key Indicators

24 LED circular display, Backlit LCD, Sync status indicator