

June 2024

AMETEK Power Instruments TR-3000 and DR-300 Software and Firmware Release

AMETEK Power Instruments is pleased to announce the release of new software and firmware for their state-of-the-art Digital Fault Recorder products. While maintaining backward compatibility with older releases and products, the new Display Station install package, version 3.1.87, adds significant features to assist users in more effectively monitoring their power system performance.

New features include:

- Harmonics reports are automatically created and emailed to users. Pass or fail results are provided for harmonic and interharmonic measurements up to the 128th. EN 50160, EREC G5/5, or user programmable limits are supported.
- An additional power quality logger for IEC 61000-4-30 Class A rms and frequency measurements. This is supplementary to the existing rms and frequency logger but uses measurement algorithms defined in the standard. This allows direct comparison with other Class A reporting devices, for example AMETEK Power Instruments' JEMStar II Revenue Meter.
- IEC 61000-4-30 Class A sags, swells, and interruptions, event detection and triggering. These are similar to over and under triggers but use three phase measurement algorithms as defined in the standard. All compliant Class A devices will produce identical results when monitoring the same voltages.
- Frequency oscillation detection and triggering. Users can define frequency bands of interest to automatically detect real power and frequency oscillations. These can be well understood low frequency modal oscillations or new higher frequency oscillations due to high proliferation of Inverter Based Resources such as wind, solar, and battery storage. A real time display of amplitude of oscillation in the specified bands is also supported.
- Programmable digital debounce allows for noisy digital signals and chattering relay contacts to be filtered out to provide reliable triggering and indication of alarms and protection operations.
- Memory usage statistics for various data types. AMETEK Power Instruments' latest recorders have the ability to store huge amounts of data for very long periods of time. This new feature gives users a visual indication of how much data is available and how much more data can be acquired. This covers triggered and continuous logging, transient, disturbance, and power quality data
- Maintenance changes for improved stability and time synchronization management.

Display Station install version 3.1.87, SCM firmware version 01.14.10, and IM firmware version 00.14.10 can be obtained from the AMETEK Power Instruments Service Team or Regional Sales Manager.

SCM Firmware SHA-256 Hash Code =
953f7af89bdbfd0319902329e0599339c2e87172babbcf6d423b8d2ffe4fab94

IM Firmware SHA-256 Hash Code =
f63f60b3469307f20282974ffb0e2ae1eb9c742983a73f9a36e8a907a0614c8f