

Knowledge Base Article

Product Group: Multilog On-Line System

Product: IMx-S

Version: N/A

Abstract

This document can be used as a quick guide to verify the power supply of a Multilog IMx On-Line System.

Overview

First and foremost, verify the fuse is good. If the fuse is good, then verify the surge arrester is still functional. There should be roughly 220 Vac on both sets of terminals of the silver box pictured in Figure 1 below.

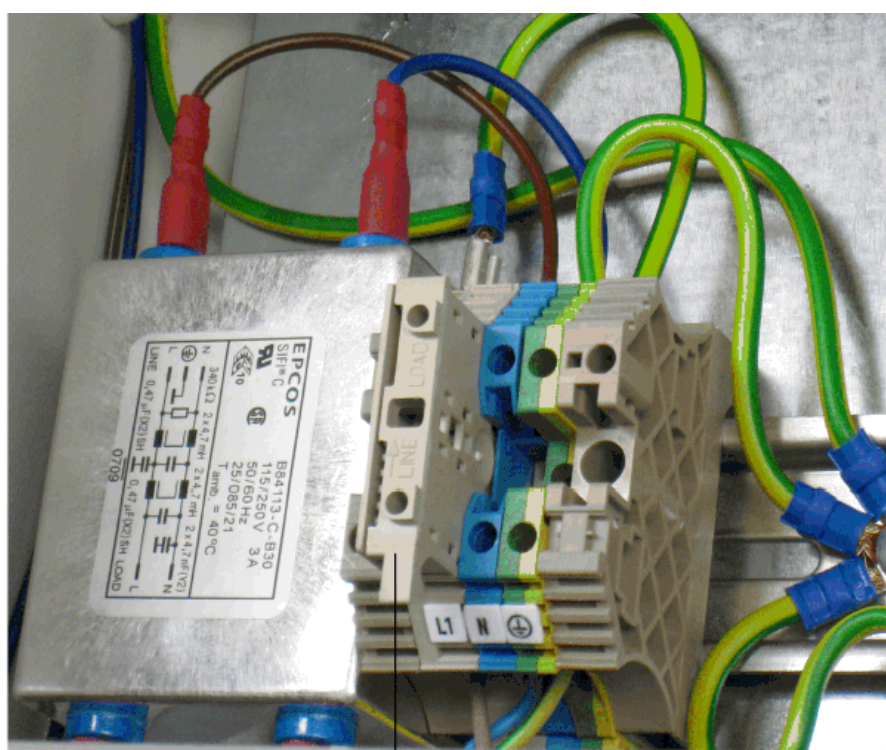


Figure 1. Verify surge arrester

If the surge arrester is working as it should, then the IMx power supply will need to be checked. This can be done by killing the power to the IMx and removing the silver cover plate prior to removing the IMx cover.

Remove the screws circled in red in Figure 2.

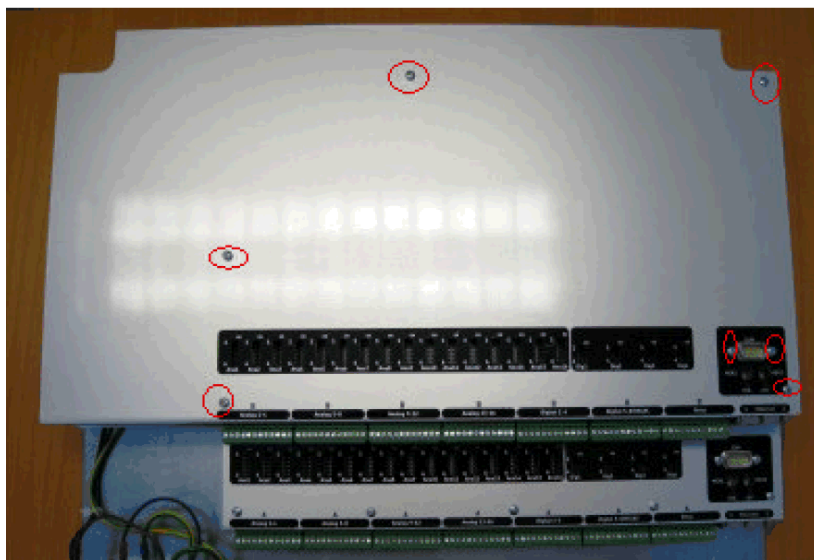


Figure 2. Remove screws

The connector on the exposed I/O board will be visible. In Figure 3 below, the cover has been removed and the digital board has also been removed. It is not necessary to remove the digital board to check the voltages.

An anti-static wristband should be used to prevent the technician from causing bodily injury and damage to the circuit boards due to static discharge while checking the power supply. **Please take care not to touch the circuit board.**

Measure the DC voltages.

- Yellow to black should be +12 Vdc
- Red to black should be +5 Vdc
- Black to white should be -12Vdc

Black is common. Typically, these voltages are slightly higher than 12, 5, and -12, which is acceptable.

However, if one or more of the readings is 0 or significantly lower than posted, the power supply could be bad.

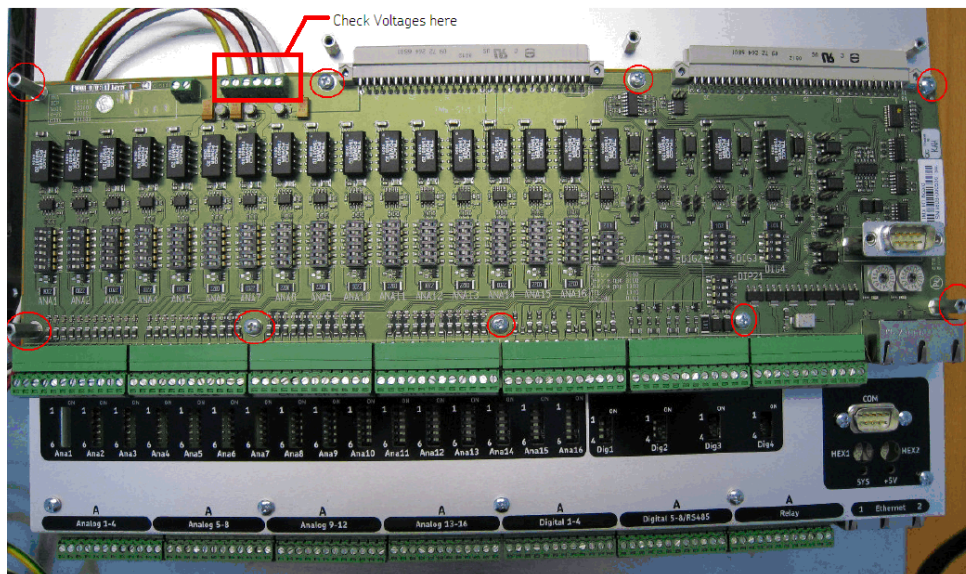


Figure 3. Check voltages

For further assistance, please contact the Technical Support Group by phone at 1-800-523-7514 option 8, or by e-mail at TSG-CMC@skf.com.