Addressing - Water Meter Success Test

Requirements for addressing and success testing of water meters

V1.0.0 (DEC/2023)

Contents

1 Introduction

The process of addressing and success testing of water meters is crucial to ensure quality in production. This stage involves associating numbers with the Printed Circuit Board Assembly (PCBA), verifying compliance with specific requirements, and interacting with the Integrated Production Management System (PIMS). These measures ensure the integrity and compliance of water meters, adhering to the highest industry standards.

2 Addressing + Water Meter Success Test

2.1 Stage Function

Associate the Eletra number with the PCBA and pass commands.

2.1.1 Requirements

- Check if the serial server (SelfHosted) is active; (Software that controls serial ports)
- Enter the OF number;
- Check if the OF exists; if not, notify "OF not found! Contact the PCP team.";
- Check if there is a Technical Sheet for the specified OF; if not, notify "There is no technical sheet with PCBA identification for this OF ({OF number}). Contact Technical Support.";
- Check if the Technical Sheet is approved; otherwise, notify the error "Technical sheet not approved, contact Technical Support.";
- Check if the Technical Sheet is active; otherwise, notify the error "Technical sheet not active, contact Technical Support.";
- Check if the COM port has been selected; if not, inform "No communication with COM port! Contact the IT team or Maintenance.";
- Enter or read the serial number engraved on the meter cover;
- Read the PCBA number from the memory of the meter;
- Check if the success test measurements are within the allowed limits;
- Check if approved in the success test;
- Check if the serial number is unique.
- Check if the PCBA is being tested; if yes, inform "PCBA is already being tested.
- Check if the serial number is being tested; if yes, inform "Serial number is already being tested.
- Check if the mandatory inscriptions on the board have been approved by quality;
- Check if the serial number meets the formation standard defined in the standard.
- Check if the meter has already gone through the initial assembly; if not, notify "Initial assembly not found";
- Check if the PCBA has already been addressed; if yes, inform ">ID {0} has already been addressed on PCBA {1} - Please deliver this ID board to the LEADER";
- Check if the meter has already been billed; if yes, inform "Meter already billed!";
- Pass commands from PIMS.
- Associate the meter's serial number with the PCBA number in EletraEA and PIMS;

3 Change log

3.1 Version 1.0.0

- Documentation of the addressing stage requirements for the Water Meter project.