

DATA SHEET

QualityLogic's SunSpec Modbus Conformance Test Suite

SUNSPEC MODBUS PROTOCOL FOR IEEE 1547/UL 1741SB COMPLIANCE

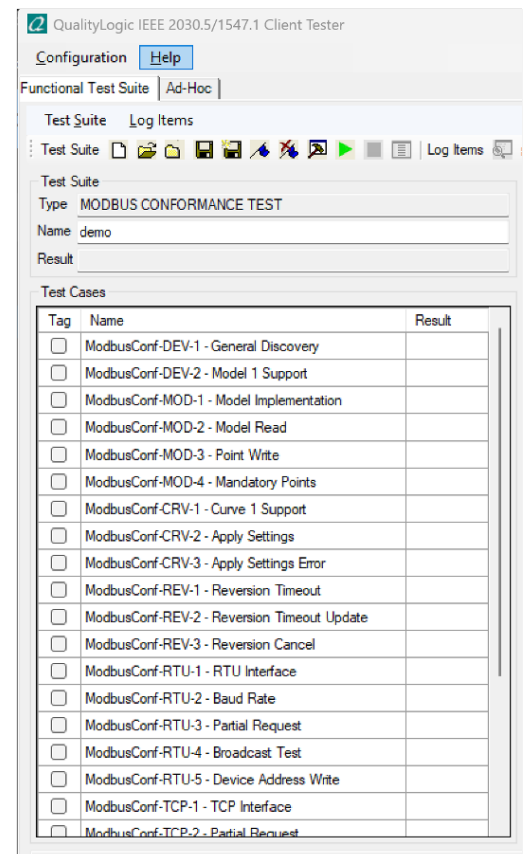
The SunSpec Modbus protocol is one of the required protocols to meet the interoperability requirements for IEEE 1547/UL 1741SB certification. For OEMs, it's critical not only to meet the functional requirements for the interconnection functions required in IEEE 1547, but also to ensure proper implementation of SunSpec Modbus. This is essential for meeting these national standards.

QualityLogic has assisted many OEMs in properly implementing DER protocols, including SunSpec Modbus 700 models, for IEEE 1547 interoperability compliance. The SunSpec Modbus Conformance Test Suite from QualityLogic helps OEMs drastically improve their compliance with the SunSpec Modbus requirements defined by the SunSpec Alliance.

SOLUTION AT A GLANCE

The QualityLogic SunSpec Modbus Conformance Test Suite includes a comprehensive set of tests covering all scenarios defined in the SunSpec Modbus Conformance Test Procedures. These include:

- General Device Tests
- General SunSpec Model Tests
- Curve Tests
- Reversion Tests
- Modbus Protocol Tests
- Exception Generation Tests



JSON reports formatted to meet SunSpec's reporting standards can be submitted by OEMs for formal review by the SunSpec Alliance. QualityLogic has worked closely with the SunSpec Alliance to ensure that the tests meet all requirements.

COMMON ISSUES FOUND

- Improper curve support implementation
- Missing support for required Modbus function codes
- Incorrect usage of scaling factor numbers
- Missing mandatory registers for SunSpec and 1547 models
- Many more

KEY BENEFITS

- Verifies OEM compliance with the 1547 models required for the SunSpec Modbus 700 model series
- Provides an easy-to-use and convenient pre-compliance tool to ensure the device meets SunSpec Modbus conformance requirements
- Eliminates common interoperability and implementation issues by verifying them during testing
- Accelerates time to market by using a test tool from QualityLogic, a specialist in protocol compliance for the smart energy industry

QUALITYLOGIC'S SUNSPEC MODBUS TRAINING

Led by Steve Kang, QualityLogic's General Manager of Smart Energy and a leading authority on smart energy standards, this workshop provides in-depth technical education paired with practical industry experience.

The workshop is designed to improve your ability to achieve interoperability, ensure grid reliability, and efficiently identify and resolve potential implementation issues through hands-on demonstrations of the QualityLogic SunSpec Modbus Test Suite.

By attending, you'll learn:

- An overview of SunSpec Modbus Conformance Testing procedures and best practices.
- Comprehensive understanding of Modbus and SunSpec Modbus protocols.
- Practical insights for implementing SunSpec Modbus within IEEE 1547 frameworks.
- Strategies to avoid common implementation pitfalls identified by OEMs.

Discover why so many companies and labs rely on QualityLogic's Test Tools, training, and consultation services. Contact us today.