



Deliverable Report

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Executive Summary

This document describes the testing of the Solned junction box for the Summit smart modules.

In order not to not lose any more time within the Summit project, we want to do all kind of testing to our Solned junction box before we send the samples to the consortium for mounting and testing on the Summit modules. We want to make sure that our junction box will not be a showstopper further on in the project, and therefore we do all important or most critical testing in-house, so in case of failing, we know this at beginning point and not if all kind of other activities have started already. If the Junction box fails later in the project, it is possible that we have to do some modifications on the design, which will result in start all over again.

The most critical tests we have carried out are:

- Pull test cable
- Torsion test cable
- Temperature test
- Fretting corrosion test
- IP test
- Bypass-diode testing.

For carrying out these testing Solned did make several test tools according to the testing's that will be done during the IEC 62790 tests. Therefore all tests we carry out are in exact the same way as later on will be done in the Summit project by Kiwa during the pre-certification.

Also a climate chamber is part of the testing, therefore Solned did install an second hand unit for this purpose.

All tests carried out by Solned in-house are passed with success. As a result, we are convinced that the Solned junction box will meet all IEC 62790 standards at Kiwa and there will be no issues further in the project,

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http://cordis.europa.eu/fp7/cooperation/home_en.html

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Fh-ICT | Fraunhofer-gesellschaft zur foerderung der angewandten forschung E.V. (DLD)
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YPR | Yparex B.V. (NL)
RTG | Rimas B.V. (NL)
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