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Measuring systems



MSAV25000 / MSAV-DC catenary multi-voltage & current sensors





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Catenary multi-voltage & current sensors accuracy check



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Summary



- MSAV25000 accuracy check
- MSAV-DC accuracy check

- Calibration check on the roof:



Access to calibration terminals
Common test terminal



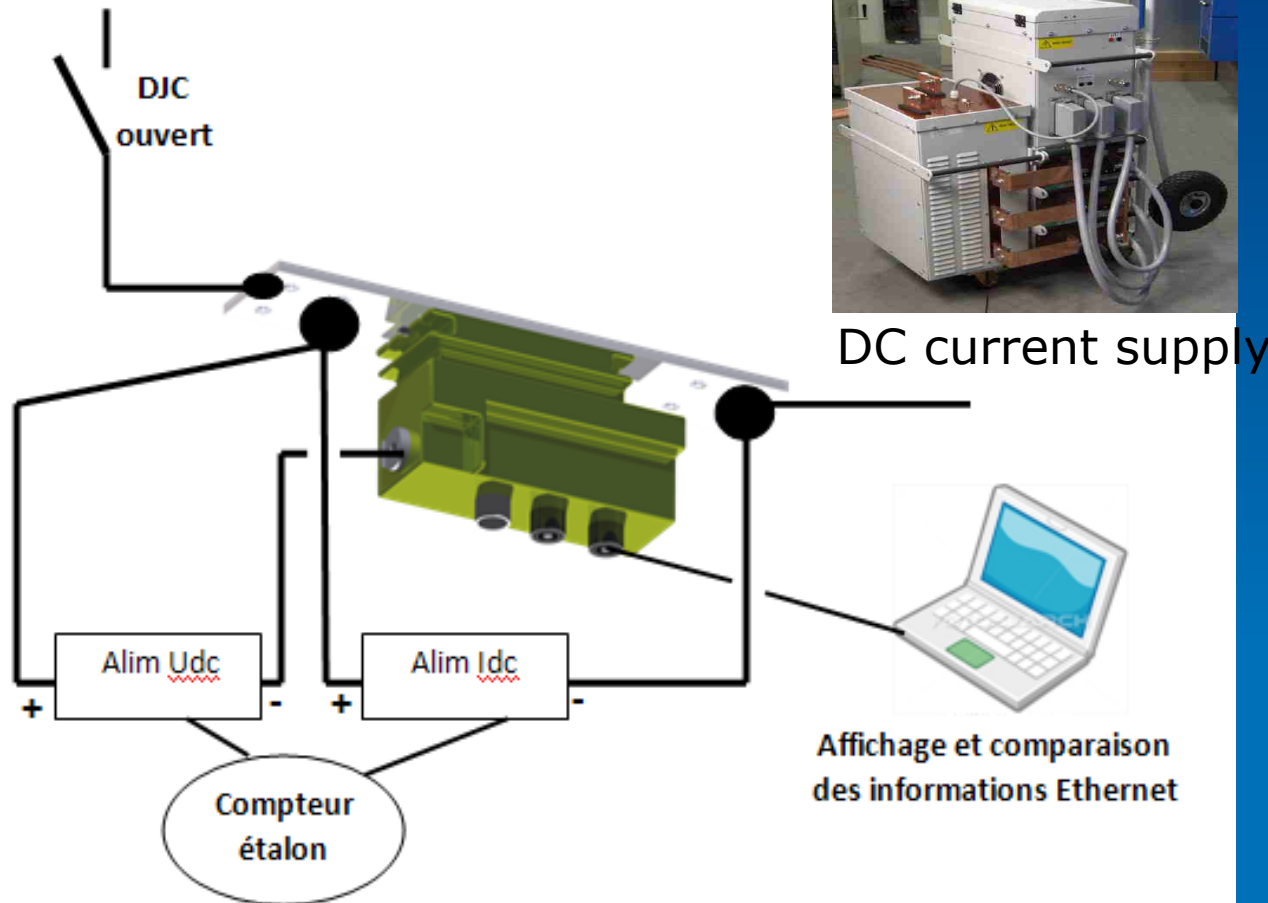
U check

I check

1. The test terminals allow calibration check without dismantling nor catenary voltage presence
2. Calibration is achieved with adjustable low voltages and proper accurate measuring devices, ambient temperature is measured to integrate deratings authorized by EN50463

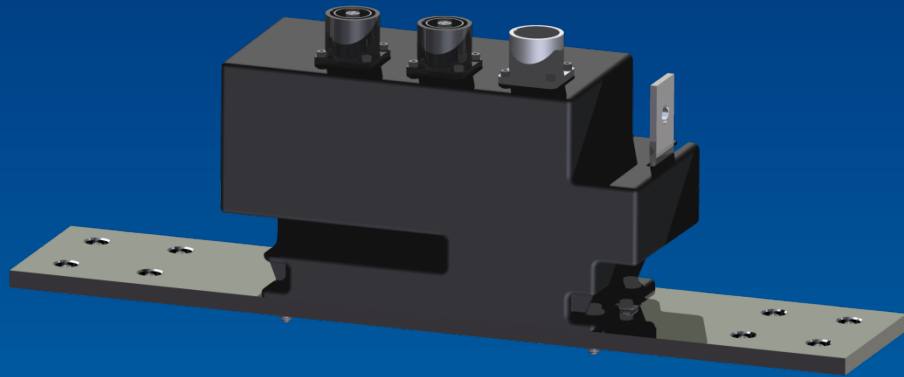
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MSAV-DC Accuracy check



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MSAV-DC Accuracy check



1. MSAV-DC calibration check is achieved with an isolated DC current generator isolated between primary and secondary
2. Operating mode: MSAV-DC must be supplied with an auxiliary battery of the train or an equivalent voltage source
3. DC current must be injected in the bus bar which will be equipped with a scaled shunt and a multimeter to measure it
4. DC voltage must be injected between bus bar (+) and common (-) which is disconnected of the train



SERVING
SAFETY

Thank you