

- Fault in expansion rack or remote IO-station
- Error in communication
- Programming error

### **8.23.13 Instruments**

The object handles signals from a process instrument. It shall be able to handle: or communication

- Scale incoming signal
- Freezes the output by request of the operator
- Indicated valid measurement
- Instrument warning
- Instrument alarm
- Measurement above limit (short current in loop)
- Measurement below limit (broken wire)

## **8.24 Tests**

The objective of the tests is to verify that the system works in accordance with the Contract and the detailed design.

All tests of equipment and of the complete system shall be performed in accordance with the Contractor's approved Quality Assurance system.

All tests have to be documented in test forms defined as part of Quality Assurance system covering:

- Date of test.
- Description of test.
- Actual method of test.
- Output of test.
- Remarks regarding deviations from the expected output.
- Accepted/rejected.
- Supervisor's signature.
- Comments.

### **8.24.1 Handling of Deviations**

Before the report is completed and can be approved; all significant deviations have to be corrected.

In case of deviations, the following issues have to be decided:

- What are the consequences of the deviation? Which part of the installations will be influenced by a revision, and which tests already accepted will have to be done over again (if any)?
- Date of a new test of the revised system included repetition of already accepted tests.