

TESTING PROCEDURE FOR FT1 TRANSMITTERS

The following procedures should be followed to determine transmitter status.
These tests should be performed in order.

Physical Test

Functional Test

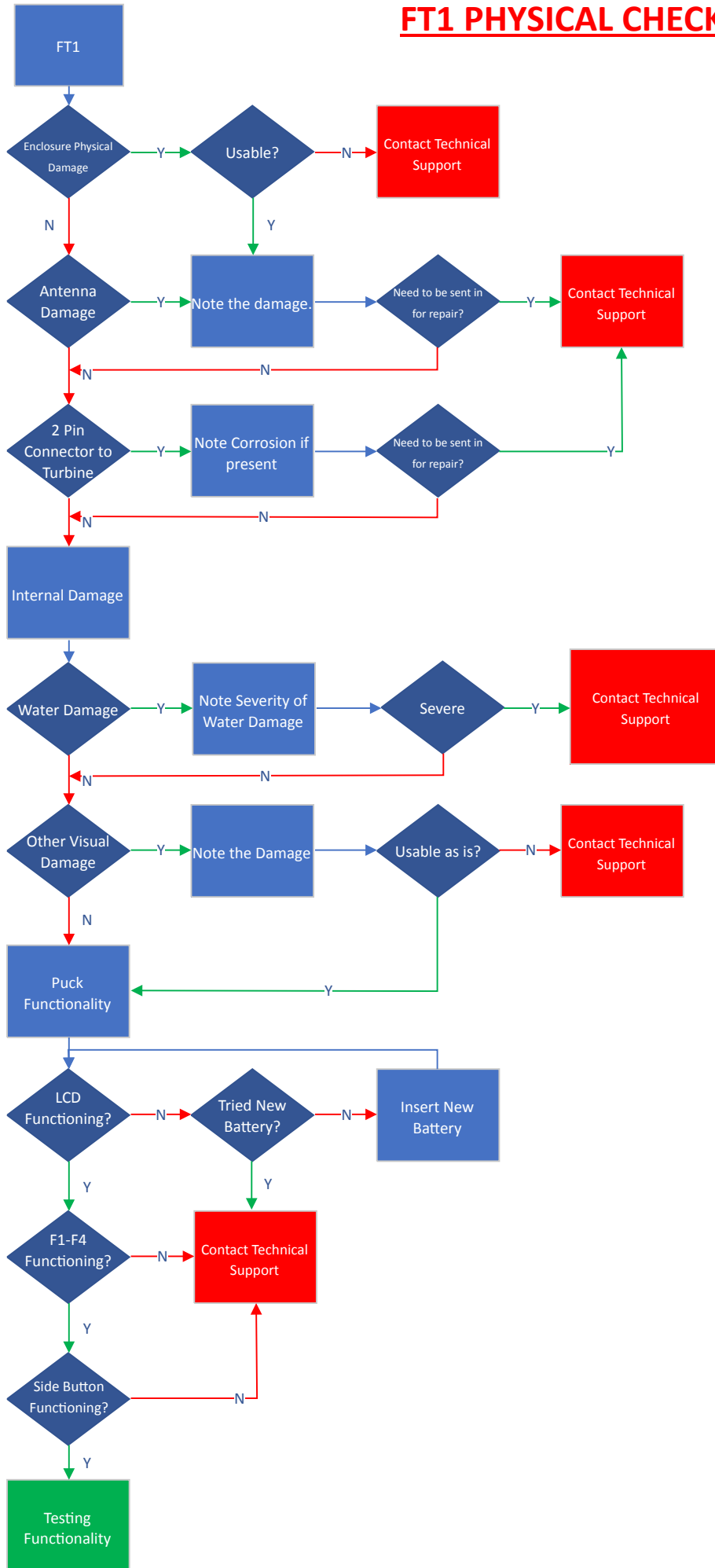
Current Draw Test

There is also a section at the end for any battery testing.

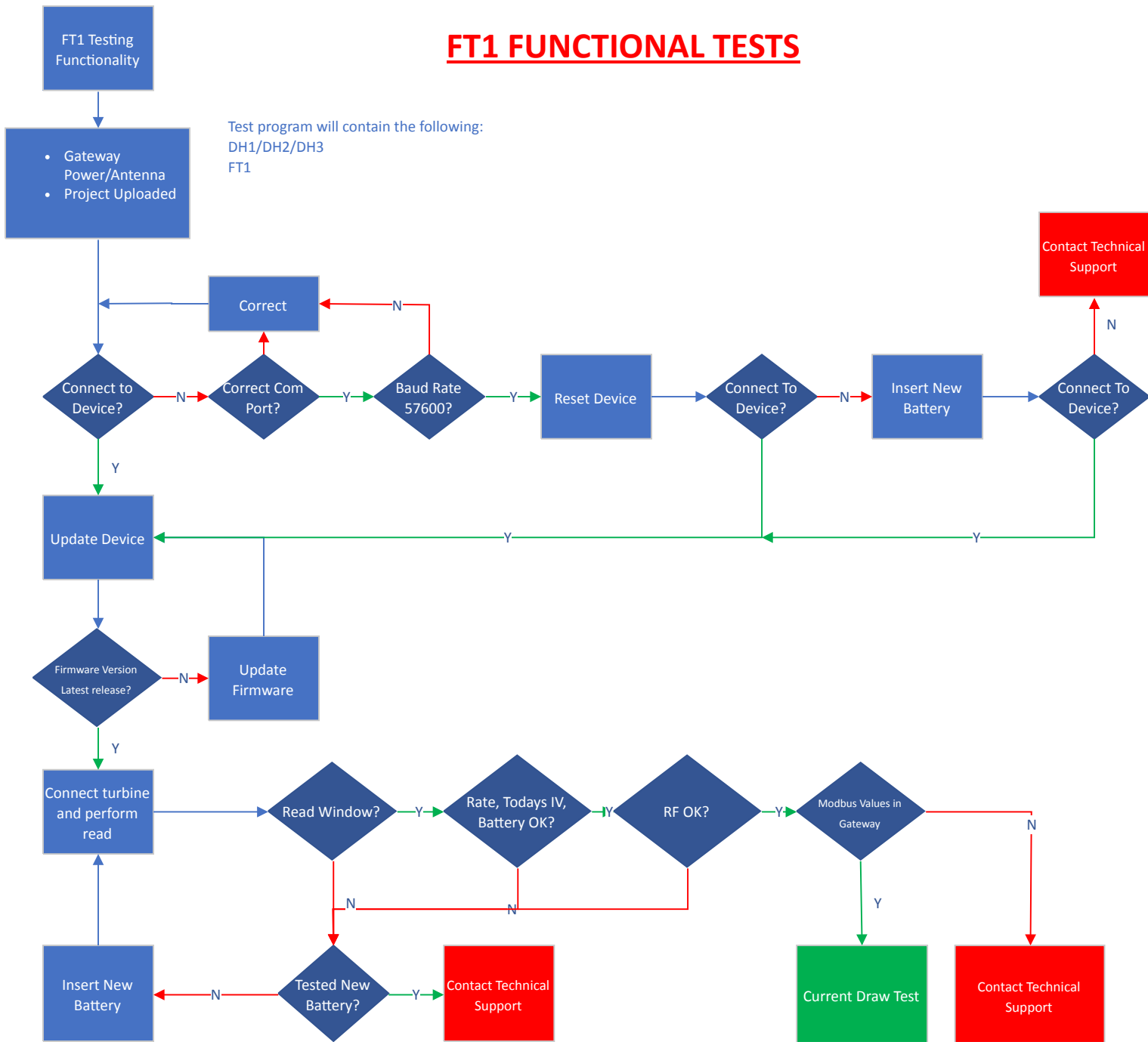


FT1

FT1 PHYSICAL CHECKS



FT1 FUNCTIONAL TESTS



CURRENT DRAW TEST

OleumTech Corporation

Transmitter Current Testing Procedure

EQUIPMENT REQUIRED:

1. OleumTech Battery Voltage & Transmitter Current Tester, P/N SX1000-BPT.
2. Digital Multimeter (DMM)



PROCEDURE - TRANSMITTER CURRENT CONSUMPTION TEST

1. Set Digital Multimeter (DMM) to DC current measurement.
2. Connect DMM to Battery Tester (Black lead to COM and Red lead to A ≥ 400 mA).
3. Set the switch on Battery Tester to current measurement.
4. Connect the battery from the Transmitter to the Battery Tester's female pin.
5. Connect the 2-pin male connector from the Battery Tester to the Transmitter's battery port.
 - Current measurements approximately 80-95 mA for 3 sec.
 - Current measurements < 0.2 mA at idle/sleep mode.
 - Current measurements approximately < 200 mA for less than a second on read/transmit.

Note 1: Do not connect configuration cable to transmitter or turn on LCD display during testing. This may result in higher Current values.

Note 2: Current measurements may vary depending on the product, Tx Power, number of sensors, and environment conditions. Values are meant to be for reference only.

PASS/ FAIL CRITERIA

Pass - Transmitter is functioning properly and can be installed in the field.

Fail - Transmitter is consuming more < 0.2 mA current in idle/sleep mode. The transmitter may be defective or damaged and requires factory service. Contact manufacturer for RMA number.

BATTERY TEST

OleumTech Corporation

Battery Pack Testing Procedure

EQUIPMENT REQUIRED:

1. OleumTech Battery Voltage & Transmitter Current Tester, P/N SX1000-BPT
2. Digital Multimeter (DMM)



PROCEDURE - BATTERY VOLTAGE TEST

1. Set DMM to DC voltage Measurement.
2. Connect DMM to Battery Tester.
3. Set the switch to voltage measurement (Battery Tester).
4. Connect the battery from the Transmitter to the Battery Tester's female pin.
5. The 2-pin male connector from the battery tester is not used and is to remain disconnected.
6. DMM's voltage reading should be $\geq 3.5V$.
7. Press and hold the push-button for 1 second. The voltage reading should $\geq 2.9 V$. Note: Holding down the push-button for longer than 1 second will adversely drain the battery.
8. Release the button, voltage reading should be $\geq 3.5V$.
9. Repeat steps 7 and 8 one additional time.

PASS/ FAIL CRITERIA

Pass - Battery pack is functioning properly and can be installed in the field.

Fail - Battery reads $< 2.9V$ under load and needs replacing.