TRM Sensors LLC

TRM-CC, TRM-CB, TRM-CBX, TRM Relay Unit Type-C, TRM Flasher-BE

Recommended Maintenance Procedures and Spare Parts

TRM-CC, TRM-CB, TRM-CBX probes

Cleaning / Reset / Maintenance Procedure:

1. De-energize sensor by disconnecting power to monitoring instrument
2. Remove sensor from field mount
3. If sensor is contaminated with dirt or mud, remove any mud or caked dirt or sediment by soaking sensor in warm water
    a. DO NOT USE DETERGENT or other solvents – WATER ONLY
    b. DO NOT STIR OR SHAKE – Passive soaking, with repeated water exchanges as necessary until sensor is clean
    c. DO NOT insert any foreign object into are protected by plastic or stainless steel screen
    d. Allow to dry on paper towels or other absorptive surface
4. If sensor probe is contaminated with diesel, jet fuel, crude oil or other heavy hydrocarbons liquids,
    a. Soak sensor for 15 minutes in naphtha (Use Coleman Camp Stove Fuel or Painters' Naphtha)
    b. DO NOT STIR OR SHAKE – passive soaking in naphtha only
    c. DO NOT insert any foreign object into are protected by plastic or stainless steel screen
    d. Allow sensor to dry for 60 minutes on paper towels. DO NOT use forced air.
    e. Check to see if sensor has reset by connecting it to monitoring instrument in field or bench top equivalent.
    f. Repeat steps a. to e. up to three times (four total attempts)
5. Reinstall sensor probe,, connect to monitoring instrument and reenergize if cleaning and resetting is successful. SENSOR MUST BE REPLACED with new equipment if 4 repetitions of Step 4 fail to restore sensor to functionality.

TRM FLASHER-BE Monitoring Unit

Cleaning / Reset / Maintenance Procedure:

1. There is a TEST / RESET button located on the lower edge of the enclosure beneath the red lens.
    a. TEST button can be pressed when a probe is connected
        i. GOOD test is indicated by a flash at the rate of one per second
        ii. BAD test is if flasher remains dark – confirm that a probe is connected to the leader cable, check integrity of wiring, replace 2 x "AA" standard Alkaline batteries – DO NOT use Lithium batteries
    b. TEST button can be used as a "RESET" button if strobe is flashing and there is reason to believe that the probe has cleared or reset (for instance after probe is lifted from brine)
        i. GOOD reset is indicated by strobe going dark after button is released. (Note that strobe will continue to flash if TEST/RESET button is held in pushed position)
        ii. BAD reset is indicated if strobe remains flashing at one per second rate after button is released - This usually indicates that the probe is not yet reset. Try cleaning and reset procedure for TRM Sensor Probes in previous section of this document.
2. TRM FLASHR-BE enclosure can be cleaned with a damp cloth
3. Replace units that are physically damaged or that cannot be restored to normal functionality. Circuits are encapsulated and cannot be repaired in the field.

TRM Relay Unit Type-C

Cleaning / Reset / Maintenance Procedure:

1. There are no test or reset functions for the TRM Relay Unit Type-C
2. If unit fails to function normally
    a. Check tightness of wiring at all terminal blocks
    b. TRM Relay Unit Type-C must be replaced with a new or factory re-conditioned unit if it fails to function normally. – Field repairs are not authorized for this unit.
3. TRM Relay Unit Type-C enclosure can be cleaned with a damp cloth.