

TRANS INSTRUMENTS

INSTRUMENTS FOR THE PROFESSIONAL

SENZ TDS2 OPERATION (MANUAL)

PRODUCT SPECIFICATION

OPERATING RANGE	0~10,000PPM
RESOLUTION	100PPM
ACCURACY	±2% FULL SCALE
BATTERY	4x1.5V BUTTON CELL (ALKALINE LR44 OR EQUIV.)
BATTERY LIFE	APPROX. 100 HOURS (CONTINUOUS USE)
AUTO SHUT-OFF	APPROX. 15 MIN.
OPERATING TEMPERATURE	0°~50°C

Total dissolved solid is one of the most commonly measured parameters in water quality control, manufacturing process control, cleaning processes and municipal water quality check. This tester is specially designed to measure high concentration water. Its portability makes it easy for inspector and service engineer to perform quick on site testing.

Some application include the measurement of concentrate in boiler and cooling tower, water treatment in manufacturing plants, chemical mixing and dilution of concentrate liquid etc.

Water resistant - floats on water - drop shock - simple to use



TRANS INSTRUMENTS
www.transinstruments.com

ISO 9001 Certified Firm

TRANS INSTRUMENTS Senz TDS 2 (Scientific)

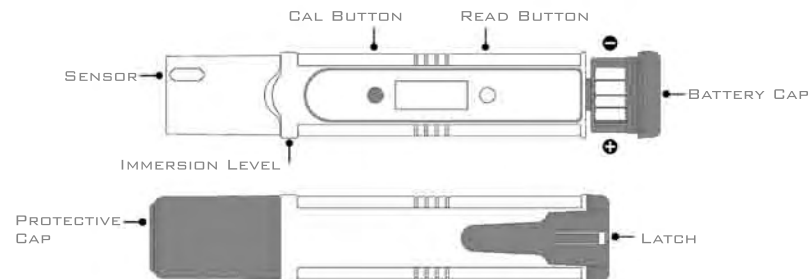
for Concentrate . Chemical mixing . water & waste control . Boiler

100ppm resolution - ATC - Auto End-point - One-Touch calibration

Water resistant - floats on water - drop shock - simple to use

ISO 9001 Certified Firm

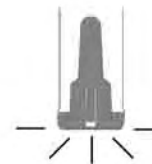
PRODUCT FEATURE



BATTERY CAP INSTALLATION

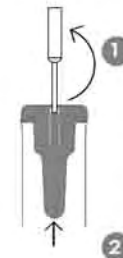
INSTALLING BATTERY CAP

This unit is shipped with the battery cap open. Close the battery cap by pressing Cap on on a hard surface until the latch **clicks**, indicating a secure lock.



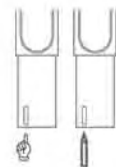
REPLACING BATTERIES

1. Lift latch with a pen or mini screwdriver. **DO NOT PULL** latch out completely.
2. Use the thumb to push Cap forward.
3. Hold the battery cap and separate it from the meter.
4. Replace all batteries according to polarity.

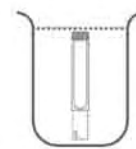


PRECAUTIONS IN HANDLING

Do not touch, rub or scratch the sensor. It is very delicate and might break or lose its sensitivity.



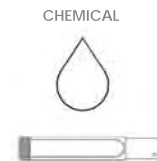
Do not submerge the unit underwater. Though the unit is water resistant, it cannot come under high pressure underwater. If it is dropped into water, retrieve it immediately and wipe dry with a cloth.



Do not store unit without the protective cap or under high temperature and direct sunlight. This will shorten the life span of the meter.

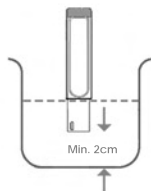
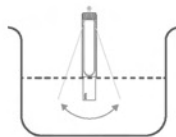



Do not clean unit with thinner or solvents. This will damage the unit. Use only mild detergent on damp cloth to clean and rinse unit if needed.



MAKING MEASUREMENT

1. Remove protective cap.
2. Press the Read button once to switch on. Display will appear blinking.
3. Dip tester into sample solution up to the immersion level, shake to remove bubbles. Tiny bubbles on sensor will affect accuracy.
4. Keep still and wait for a stable reading. When the display stops blinking and beeps, a stable reading has been established. You can now take the reading.
5. To take another reading, press the Read button again. Whenever the display is blinking, it means that the unit is sensing for a stable reading and waiting for a complete temperature compensation to take place.
6. If measurement is made in a cup, be sure to leave a 1/2 inch or 1cm gap between the bottom.
7. Always rinse the sensor area with clean tap water before and after each test. Soak it in a cup of clean tap water for at least 30 minutes before storing.
8. To Switch off, press and hold the Read button for 3 seconds.
9. Replace with the protective cap before storing away.



 In the presence of certain radio transmitters, this product may produce erroneous readings. If this occurs then measurements should be repeated at another location.

MAINTENANCE

Always soak the sensor in clean tap water after each test. This will maintain the sensor's accuracy and prevent dirt from depositing on it. If dirt is deposited on the sensor, it will degrade the accuracy of the unit.

CLEANING THE SENSOR

If the sensor is dirty, soak the sensor area in mild detergent and agitate for 2-3 minutes will remove dirt. Soak the sensor area in alcohol will remove oil.

After soaking, rinse the sensor area thoroughly with distilled water and soak for another 5 minutes. Perform a calibration after each cleaning.

CALIBRATION

Perform calibration every 6 months or whenever readings are in doubt.

NOTE: NEVER PERFORM CALIBRATION IF YOU DO NOT HAVE 6440ppm STANDARD SOLUTION. WRONG CALIBRATION WILL SEVERELY AFFECT THE ACCURACY


1. Make sure you have the correct standard solution:

Standard solution: 6440ppm

Order Code: SC1288 (90ml)

2. Dip the sensor into the solution while keeping a 1cm or 1/2 inch gap between the bottom. Shake to remove bubbles at the sensor.
3. Switch on the unit, then press and hold-down CAL button until the display shows CAL. Then 6400 will appear in a blinking mode.
5. Keep still and wait until it beeps and the display stops blinking.
6. Calibration completed. Rinse the sensor area thoroughly before proceeding with further tests.

LOW BATTERY ALERT

When the battery symbol  appear on the display, this indicates a low battery and only 2 hours of continuous use remain. Though the unit may continue to function, the accuracy of the unit will be affected beyond 2 hours.

Change the batteries according to instructions overleaf.

ERROR CODE

1. When Erb is displayed during calibration, it means you have used the wrong standard solutions. Make sure you have the right calibration solutions before performing calibration.
2. When Err is displayed during calibration or measurement, it means the unit cannot get a stable reading. This could sometime due to electro-magnetic interference when you make tests near equipments with strong magnetic field. To prevent this, move to another location.
3. Press READ button several time to exit error mode at anytime.
4. When the display shows " - - - " during measurement, it indicates an overranged reading. This means the solution is too concentrated or temperature is out of the meter's measuring range. Rinse the sensor area with water thoroughly and make measurement only in solutions not above the measuring range and within 0 to 50°C.
5. When the display shows " - - - " when switched on or before dipping into any solution, it means the meter is malfunction or damaged.
6. If meter is not dip in solution and shows a reading above zero when switch on, it could be due to different humidity of place manufactured and your environment. Perform a factory reset as follows:
 - a. Disconnect battery by removing battery cap.
 - b. Press the READ button at the same time replace the batteries.
 - c. C00 will appear blinking, wait for display to stop and return to zero.
 - d. Reset completed. You can proceed to make measurement.

APPLICATION & PRODUCT SELECTION GUIDE

