

MIJ-03 Soil O2 Sensor



Over All View



Bottom View

The MIJ-03 is used for the measurement of the root aspiration and other oxygen dynamics in the soil. The MIJ-03 detects the density of oxygen in the soil by % order with -out any difficulties, just digs up the hole in the soil and lay this sensor into the ground. An usual usage of this sensor is laid in a vertical direction at intervals of 20 to 50 cm. Researchers can measure the vertical profile of the O₂ in the soil.

Features

- Can be used for long term observation with easy set-up.
- Automatic temperature compensation. MIJ-03 has thermo-couple compensation circuit in it.
- No influence by the rain or other waters. MIJ-03 has porous TEFLON water protection.
- Easy span calibration. Users can do the calibration at the usual atmosphere (20.9% Oxygen concentration).
- Not require to do the zero calibration. 0% Oxygen = 0 mV output.

Specification

Theory	Galvanic Battery + Porous membrane sheet
Shape	40mm, Length 78 mm (Cable support joint is 50mm height extra.)
Output	45 - 65mV at 20.9% O ₂ (Users must check the output at the air before set-up)
Weight	220 grams (Include cables)
Cable length	5m (+/white, -/Black, Shield cable)
Temperature effect	At R.H. 100 % and O ₂ 20.9%. Sensor out put is 20.8% at 5, 19.4% at 40degree. At R.H. 0% and O ₂ 20.9%. It is not influence from the temperature effect.
Temperature	-20 to +60 deg. C