

EM38-4 Data Sheet

Similar to the previous EM38MK2 model, the EM38-4 has the same electronics, functionality and interface, enabling the user to obtain In-phase (Magnetic Susceptibility and Quadrature phase measurements (Conductivity)). However, the EM38-4 has two additional receiver coils, which enables the unit to take measurements at seven different depths compared to four. Additionally, by having 4 receiver coils, the system is able to provide more data which can aid a better understanding of the soil profile through inverse modelling and further processing. The unit is Bluetooth enabled allowing easy transmission of data to a logger/ tablet which can also be connected to secondary devices such as an external GPS. The data is recorded in real-time with a connection range of approximately 10m. The system can be used in a range of configurations/modes such as through hand deployment, towing behind a vehicle or vehicle/sledge mounted with continuous data acquisition.

The maximum depth of prospection is 1.5m (simultaneous depth range for the 4 coils) in the vertical coil orientation, for shallower measurement the coils can be rotated in the horizontal dipole position at a depth of 0.75m.



Fig 1. Image of the EM38mk2, including case and an example datalogger you can use with the instrument, Image curteously provided by Geonics Inc