M2000 Detector Resistance Verification

✓ Before attempting the resistance checks below, **ensure the power to the amplifier has been disconnected.** For accurate results, connect an Ohm meter with clips instead of probes.

Coil Resistance

Instructions for Remote Mount configuration

1. Disconnect the Coil Wires C1 and C2 (Green and Yellow wire on the M2000 amplifier)
2. Disconnect CS wire (Black Wire on the M2000 amplifier)
3. Connect a digital ohm-meter to the Green wire and Yellow wire
4. The coil resistance should be around 40 ohms
5. Connect a digital Ohm meter to each Coil Wire and CS (Black wire) to make sure they are completely open

Instructions for Meter Mount Configuration

1. Disconnect the Coil Wires C1 and C2 (White wire with a Red band and White wire with a Blue band)
2. Disconnect CS wire (green wire with yellow stripe)
3. Connect a digital Ohm meter to the White wire with Red band and White wire with Blue band
4. The resistance should be about 40 Ohms
5. Connect a digital Ohm meter to each Coil Wire and CS (Green/Yellow wire) to make sure they are completely open

Electrode Resistance

1. **The meter must be full of water**
2. **Shut off power**
3. Disconnect the Electrode wires E1 and E2 (White and Brown Wire on the M2000 amplifier).
4. Disconnect ES wire (Black Wire on the M2000 amplifier).
5. Connect a digital ohm-meter to the White wire and Black wire.
6. The resistance should be 200K ohms to 2Meg ohms depending on the size of the meter.
7. Connect a digital ohm-meter to the Brown wire and Black wire.
8. The resistance should be 200K ohms to 2Meg ohms depending on the size of the meter.
9. Check EP to ES also.

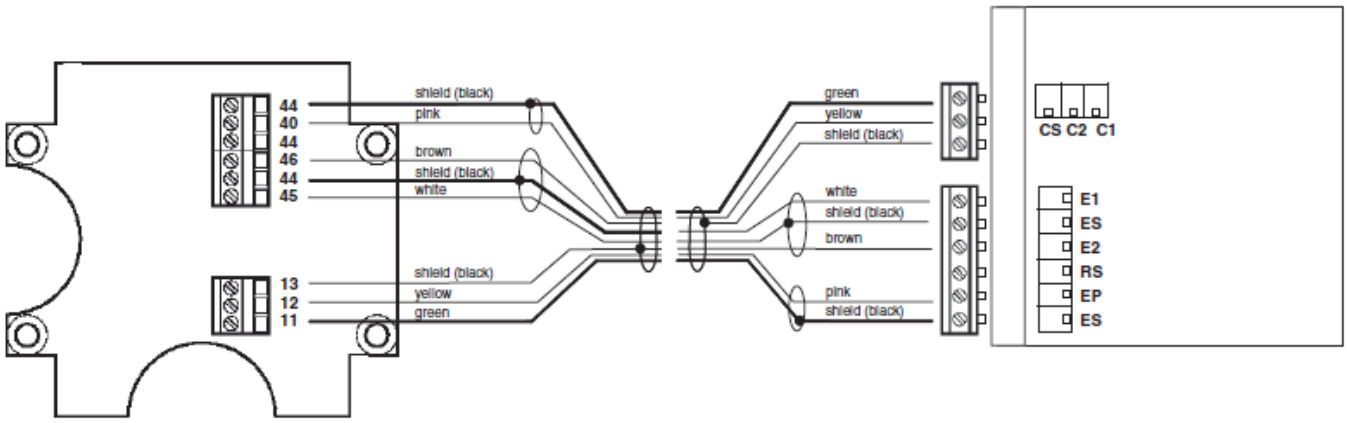
✓ When measuring the Electrodes, the resistance values should be within 5% of each other

✓ For the non-submersible option, if any check fails, remove the cover from the junction box on the detector and repeat the above tests at the detector. If checks fail at the detector, the detector will need to be replaced. If checks pass at the detector there could be an issue with remote cable. It would then be suggested to verify continuity on each wire of the cable.

✓ If all checks fail (and if it is a remote non-submersible option and the cable continuity checks out), the detector would be suspect and it will need to be replaced.

✓ If all checks pass and issues persist, the amplifier will need to be replaced

Remote Mount Wiring Diagram



Junction Box			Amplifier
Connection No.	**Description**	**Wire Color**	**Connection**
11	Coil	Green	C1
12	Coil	Yellow	C2
13	Main Shield	Black (Red Ferrul)	CS
45	Electrode	White	E1
44*	Electrode Shield	Black	ES
46	Electrode	Brown	E2
40	Empty Pipe	Pink	EP
44*	Empty Pipe Shield	Black	ES

*Connections with the No. 44 are lying on the same potential.