CLAIMS:

1. A method for coating a wound dressing, the method comprising:

coating a first side of a flexible wound contact layer of the wound dressing with a hydrophobic coating, the first side of the wound contact layer supporting a plurality of electronic components; and

coating a second side of the wound contact layer opposite the first side with either the same hydrophobic coating as that used to coat the first side or with a different type of coating, the wound contact layer formed at least in part from hydrophilic material, wherein the coating is biocompatible.

2. The method of claim 1, further comprising encapsulating the wound contact layer with the coating.

3. The method of any one of the preceding claims, wherein the coating is stretchable.

4. The method of any one of the preceding claims, wherein the plurality of electronic components comprises at least one electronic connection.

5. The method of any one of the preceding claims, further comprising coating at least some of the plurality of the electrical components with multiple layers of coating.

6. The method of any one of the preceding claims, wherein coating the first and second sides of the wound contact layer comprises spraying the coating.

7. A method of any one of the preceding claims, further comprising making at least one perforation in the flexible wound contact layer prior to coating the first side of the flexible wound contact layer supporting the plurality of electronic components.

8. The method of claim 7, further comprising making the at least one perforation under at least one electronic component.

9. The method of claim 7 or claim 8, further comprising applying a higher pressure to the first side than to the second side of the flexible wound contact layer when coating the first side.

10. A wound dressing manufactured and/or coated by the method of any one of claims 1 to 9.

11. A wound dressing prepared by a process comprising:

placing a plurality of electronic components on a first side of a flexible wound contact layer of the wound dressing, the wound contact layer formed at least in part from hydrophilic material;

coating the first side of the wound contact layer including the plurality of electronic components with a hydrophobic coating; and

coating a second side of the wound contact layer opposite the first side with either the same hydrophobic coating as that used to coat the first side or with a different type of coating and wherein the coating is biocompatible.

12. The wound dressing of claim 11 , wherein the coating is stretchable.

13. The wound dressing of claim 11 or claim 12, wherein the process further comprises, prior to coating the first side of the wound contact layer with the hydrophobic coating, coating the plurality of electronic components with another non-stretchable coating.

14. A wound dressing of any of claims 11 to 13, wherein the process further comprises making at least one perforation in the wound contact layer prior to coating the first side of the wound contact layer supporting the plurality of electronic components.

15. The wound dressing of claim 14, wherein the at least one perforation is made under at least one electronic component and/or wherein the process further comprises

applying a higher pressure to the first side than to the second side of the wound contact layer when coating the first side.