What is Claimed is:

1. A disposable indicator component for use in a system for measuring analyte concentration in a bodily fluid, the disposable indicator component comprising:

a) an indicator zone comprising at least two colorimetric analyte sensing elements;

b) a coupler for coupling the indicator component to a component having at least one spectrophotometer contained within a housing;

c) a fluid transport layer in fluid communication with the indicator zone;

d) a top plate;

e) a first flexible web layer adjacent to the fluid transport layer;

f) a fluid impervious envelope surrounding the indicator zone adjacent the fluid transport layer;

g) a second flexible web layer adjacent the fluid impervious envelope;

h) attachment means disposed on the second flexible web layer; and

i) a holding plate;

wherein:

the first flexible web layer, fluid transport layer, fluid impervious envelope, and the second flexible web layer are stacked in order and secured between the top plate and the holding plate;

the fluid impervious envelope has a discrete pocket arranged and configured to contain each of the at least two colorimetric analyte sensing elements and each pocket has a unique aperture in fluid communication with the fluid transport layer; and

the fluid transport layer is arranged and configured to inhibit fluid transport between apertures in the fluid impervious envelope.

2. The disposable indicator component of claim 1 wherein the top plate and holding plate are arranged and configured to provide a predetermined spacing to accommodate indicator component layers with predetermined fluid transport capacity to the indicator zone.

3. The disposable indicator component of claim 1 wherein the fluid transport layer comprises a fluid barrier disposed between apertures in the fluid impervious envelope.

4. The disposable indicator component of claim 1 comprising a diaper.

5. The disposable indicator component of claim 1 arranged and configured for releasable attachment to a diaper.

6. The disposable indicator component of claim 1 enclosed within an individual package.

7. A disposable indicator component for use with a handheld analyzer comprising:

a) a first flexible web layer;

b) a fluid transport layer adjacent the first flexible web layer; and

c) a fluid impervious envelope surrounding an indicator zone adjacent the fluid transport layer;

wherein:

I) the first flexible web layer, fluid transport layer, and the fluid impervious envelope are stacked in order and secured together;

II) the indicator zone comprises at least two colorimetric analyte sensing elements;

III) the fluid impervious envelope has a discrete pocket arranged and configured to contain each of the at least two colorimetric analyte sensing elements and each pocket has a unique aperture in fluid communication with the fluid transport layer;

IV) the fluid transport layer is arranged and configured to inhibit fluid transport between apertures in the fluid impervious envelope.

8. The disposable indicator component of claim 7 further comprising:

d) a top plate adjacent the first flexible web layer; and

e) a holding plate,

wherein the first flexible web layer, fluid transport layer and fluid impervious envelope are secured between the top plate and the holding plate, and the disposable indicator zone component further comprises a coupler for releasably attaching the disposable indicator zone component to a housing for the handheld analyzer.

9. The disposable indicator component of claim 8 wherein the top plate and holding plate are arranged and configured to provide a predetermined spacing to accommodate indicator component layers with predetermined fluid transport capacity to the indicator zone.

10. The disposable indicator component of claim 7 enclosed within an individual package.