We claim:

1. A vibratory meter (5) including a multi-channel flow tube (130), the vibratory meter (5) comprising:

a meter electronics (20); and

a meter assembly (10) communicatively coupled to the meter electronics (20), the meter assembly (10) comprising:

the multi-channel flow tube (130, 330, 430, 530) comprising two or more fluid channels (132, 332, 432, 532) surrounded by a tube wall (134, 334, 434, 534), wherein the two or more fluid channels (132, 332, 432, 532) and tube wall (134, 334, 434, 534) comprise a single integral structure; and

a driver (180) coupled to the multi-channel flow tube (130, 330, 430, 530), the driver (180) being configured to vibrate the multi-channel flow tube (130, 330, 430, 530);

wherein the two or more fluid channels (132, 332, 432, 532) and tube wall (134, 334, 434, 534) are configured to deform in a same direction as the single integral structure in response to a drive signal applied to the driver (180), and the two or more fluid channels (432, 532) are defined by channel tubes (436, 536), each respective channel tube of the channel tubes having a same diameter, the channel tubes, affixed to each other and extending along a longitudinal length of the multi-channel flow tube (430, 530).

2. The vibratory meter (5) of claim 1, wherein the two or more fluid channels (132, 332, 432, 532) are substantially parallel with each other.

3. A method of measuring a fluid with a multi-channel flow tube, the method comprising:

separating the fluid into two or more fluid channels in a multi-channel flow tube surrounded by a tube wall, wherein the two or more fluid channels and tube wall comprise a single integral structure;

applying a drive signal to a driver coupled to the multi-channel flow tube, the driver being configured to vibrate the multi-channel flow tube;

deforming the two or more fluid channels and the tube wall in a same direction as the single integral structure in response to the drive signal applied to the driver, wherein the two or more fluid channels are defined by channel tubes, each respective channel tube of the channel tubes having a same diameter, the channel tubes affixed to each other and extending along a longitudinal length of the multi-channel flow tube; and

measuring a deflection of the multi-channel flow tube with a sensor attached to the multi-channel flow tube.

4. The method of claim 3, wherein separating the fluid into two or more fluid channels comprises separating a gas component of the fluid into one of the two or more fluid channels.

5. The method of one of claim 3 or 4, wherein separating the fluid into two or more fluid channels comprises filling a cross section of one of the two or more fluid channels with a gas component of the fluid.