

a magnet portion comprising at least a first magnet;

a coil portion including:

a coil bobbin;

a driver wire wound around the coil bobbin; and

5 a pick-off wire wound around the coil bobbin.

Preferably, the pick-off wire is wound on top of at least a portion of the driver wire.

Preferably, the coil bobbin comprises a first winding area for receiving the driver wire and a second winding area for receiving the pick-off wire.

10 Preferably, the first and second winding areas are spaced apart from one another.

Preferably, the combined driver and pick-off sensor component further comprises a flux directing ring positioned between the first and second winding areas.

Preferably, the first magnet corresponds to the driver wire and the magnet portion further comprises a second magnet coupled to the first magnet corresponding to the pick-off wire.

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According to another aspect, a vibrating meter comprises:

20 a meter electronics;

a sensor assembly in electrical communication with the meter electronics and including:

one or more flow conduits; and

25 one or more combined driver and pick-off sensor components coupled to at least one of the one or more flow conduits with each of the combined driver and pick-off sensor components comprising a magnet portion and a coil portion, wherein the coil portion includes a coil bobbin, a driver wire wound around the coil bobbin, and a pick-off wire wound around the coil bobbin.

30 Preferably, the vibrating meter further comprises a first electrical lead coupled to the driver wire and in electrical communication with the meter electronics for communicating a drive signal and a second electrical lead coupled to the pick-off wire

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a coil portion including:

a coil bobbin;

a driver wire wound around the coil bobbin; and

5 a pick-off wire wound around the coil bobbin.

Preferably, the pick-off wire is wound on top of at least a portion of the driver wire.

Preferably, the coil bobbin comprises a first winding area for receiving the driver wire and a second winding area for receiving the pick-off wire.

10 Preferably, the first and second winding areas are spaced apart from one another.

Preferably, the combined driver and pick-off sensor component further comprises a flux directing ring positioned between the first and second winding areas.

Preferably, the coil bobbin comprises a magnet receiving portion for receiving at least a portion of the magnet.

15 Preferably, the first magnet corresponds to the driver wire and the magnet portion further comprises a second magnet coupled to the first magnet corresponding to the pick-off wire.

According to another aspect, a vibrating meter comprises:

a meter electronics;

20 a sensor assembly in electrical communication with the meter electronics and including:

one or more flow conduits; and

one or more combined driver and pick-off sensor components coupled to

25 at least one of the one or more flow conduits with each of the combined driver and pick-off sensor components comprising a magnet portion and a coil portion, wherein the coil portion includes a coil bobbin, a driver wire wound around the coil bobbin, and a pick-off wire wound around the coil bobbin.

30 Preferably, the vibrating meter further comprises a first electrical lead coupled to the driver wire and in electrical communication with the meter electronics for communicating a drive signal and a second electrical lead coupled to the pick-off wire