

ABSTRACT

A multi-piece static fluid meter includes a register and a separate meter body. The register includes a first housing including a cavity which contains an ultrasonic transducer assembly and electronic component(s) of the static fluid meter. The meter body includes a second housing. When assembled, the first housing comprises a first portion of a flow passage and the second housing defines a second portion of the flow passage. The first and second housings can be formed of a thermoplastic and thermoplastically welded together. In some examples, one or more reflectors may be disposed in the flow passage and configured to reflect signals from the ultrasonic transducer assembly through a flow of water or other fluid to be measured. The register can include multiple mating surfaces configured to mate with different meter body configurations, allowing a single register design to be used with multiple meter body configurations.

FIG. 1