

FLOW METER



INFORMATION



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The Calsense Flow Meter enables all Calsense Irrigation Controllers to measure the flow rate of an irrigation system, making it an important management tool in detecting mainline breaks, broken heads, closed or stuck valves and tracking water usage for management reports. It is installed in the mainline, after the water meter or backflow preventer. Calsense recommends using one flow meter per irrigation controller.

For controllers with more than one water source, accurate flow monitoring is achieved with Calsense Irrigation Controllers reading one, two, or three separate flow meters. (See the Multiple Flow Meter Interface (-F) section of this manual for more information).

A number of sensor models are offered, which cover applications for a wide range of pipe sizes and pressure / temperature specifications. The flow sensors generate a frequency, which is proportional to the flow rate. An internal preamplifier allows the pulse signal to travel up to 2000 feet without further amplification. Power to operate the sensor is provided by the controller. The impeller bearing assembly, shaft and o-rings are replaceable in the field.

The flow sensors feature a closed, six-blade impeller design, using a proprietary, non-magnetic sensing technology. The forward swept impeller shape provides higher, more constant torque than four-bladed impeller designs, and is less prone to fouling by water-borne debris. The forward-curved shape, coupled with the absence of magnetic drag, provides improved operation and repeatability, even at lower rates. As the liquid flow turns the impeller, a low impedance signal is transmitted with a frequency proportional to the flow rate.

Sensors of similar type are interchangeable, so there is no need for recalibration after servicing or replacement.

MODEL FMBX FLOW METER

The Calsense Model FMBX Flow Meter is designed to be used for mainline pipe ranging in size from 3" to 40". It is mounted to the pipe using a pipe saddle or welded-on threaded fitting (which are not included with the FMBX Flow Meter). It is constructed of brass and bronze hardware, and is provided with a bronze 2" NPT externally threaded hex adapter for mounting.



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Stock Number: PG1-FM-A

Rev. 11/11