Rate of Flow

The rate of flow is factory programmed for either gallons per minute or meters cubed per hour, depending on the unit of measure selected. The LCD displays both the unit of measure and rate of flow. The rate of flow display also serves as the flow finder indicator. The rate of flow display is shown without leading zeros. When rate of flow is displayed it is updated every two seconds.

Flow Direction

The direction of water flow is noted on the face of the electronics housing and cast into the meter housing.

Consumption

The consumption display includes all nine digits, including leading zeroes and a decimal point. The displayed value is the sum of the forward flow minus the reverse flow. This display also includes indicator lines above and below the digits to provide the electronic equivalent of white and black number wheels on mechanical registers. The following examples show typical displays for three different units of measure:

5/8", 3/4" and 1" Meters

Gallons

1	2	3	4	5	6	7.	8	9

- Visual reading for typical consumption/billing purposes: 1234 thousands of gallons.

- Detailed meter reading with full display resolution: 1234567.89 gallons.

Cubic Feet

1	2	3	4	5	6.	7	8	9

- Visual reading for typical consumption/billing purposes: 1234 hundreds of cubic feet.

- Detailed meter reading with full display resolution: 123456.789 cubic feet.

Cubic Meters

1	2	3	4	5.	6	7	8	9

- Visual reading for typical consumption/billing purposes: 1234 cubic meters.

- Detailed meter reading with full display resolution: 12345.6789 cubic meters.

1-1/2" and 2" Meters

Gallons

1	2	3	4	5	6	7	8.	9

- Visual reading for typical consumption/billing purposes: 12345 thousands of gallons.

- Detailed meter reading with full display resolution: 12345678.9 gallons.

Cubic Feet

1	2	3	4	5	6	7.	8	9

- Visual reading for typical consumption/billing purposes: 12345 hundreds of cubic feet.

- Detailed meter reading with full display resolution: 1234567.89 cubic feet.

Cubic Meters

1	2	3	4	5	6.	7	8	9

- Visual reading for typical consumption/billing purposes: 12345 cubic meters.

- Detailed meter reading with full display resolution: 123456.789 cubic meters.

Status Indicator	Icon	Alarm Description	High Resolution with ORION Cellular, Fixed Network (SE) or Migratable (ME)	Encoder Protocol with ORION Cellular, Fixed Network (SE) or Migratable (ME)	RTR with ORION Fixed Network (SE) or Migratable (ME)
Meter functioning correctly		Meter operating correctly.	Normal operation. Indicator not sent to endpoint.	Normal operation. Indicator not sent to endpoint.	Normal operation. Indicator not sent to endpoint.
Meter alarm		Several potential conditions may exist, including: • Empty pipe: "err" displays on LCD. Alarm clears when pipe is filled. • Low Temperature limits exceeded: meter continues to operate but outside specified accuracy range. Alarm clears after 35 days unless alarm condition continues. • Maximum flow rate is exceeded. No consumption is displayed until back within specified flow range. Both the meter functioning correctly and the meter alarm are active. • Other meter or sensor issue: meter continues to operate if possible. Alarm clears after 35 days unless alarm condition continues.	Consumption data is sent to the endpoint. Meter Alarm is also sent.	Meter Alarm is sent to the endpoint. **NOTE:** No consumption data is sent to endpoint when the alarm is active.	Consumption data is sent to the endpoint, except when Exceeding Max Flow Alarm is set.
Reverse flow		The meter detects reverse flow and triggers the reverse flow alarm icon on the E-Series display. The alarm remains active for 35 days. The alarm automatically clears after 35 days if the condition has not recurred.	Meter detects reverse flow and sends alarm message to the endpoint.	Meter does not send the alarm. The endpoint detects and reports the reverse flow and will report the read exactly how it is received.	No alarm condition reported by the endpoint will only record positive, forward flow.
Suspected leak		Meter detects 24 hours without one 15-minute interval of no flow. The alarm clears automatically when a 15-minute no-flow interval occurs.	Meter detects suspected leak and sends alarm message to the endpoint.	Meter does not send the alarm. The endpoint detects continuous consumption over 24-hour period and reports suspected leak.	
30 day no usage		No measured flow in past 30 days. The alarm automatically clears once flow occurs.	Meter detects 30 day no usage and sends alarm to the endpoint.	Meter does not send the alarm. The endpoint detects no change in consumption over 30-day period and reports 30 day no usage.	
End of life battery indicator		Indicated battery life based on pre-calculated consumption. Alarm is activated after 19 years and 6 months and does not clear.	Meter sends alarm to the endpoint.	Meter does not send the alarm.	