



## DESCRIPTION

### Application / Operation:

The 308 Summator/Splitter product supports the Summator function that combines the readings of meters with separate high and low Recordall® Transmitter Registers (RTR®) and sends a totaled reading output compatible with ORION®, GALAXY® and Itron® endpoints. In addition, the 308 Summator/Splitter includes a feature that if required, provides two separate totaled outputs to drive multiple endpoints.

### Mounting:

The 308 Summator/Splitter has been designed with an integral mounting bracket for direct installation to Turbo, Compound and Fire Series meters and assemblies. For Disc Series meters, the Summator/Splitter can be installed in proximity to the meter itself.

### Construction:

The 308 Summator/Splitter enclosure is made of a high strength thermoplastic and incorporates the electronics that are factory potted in epoxy for flooded pit applications.

## TEMPERATURE

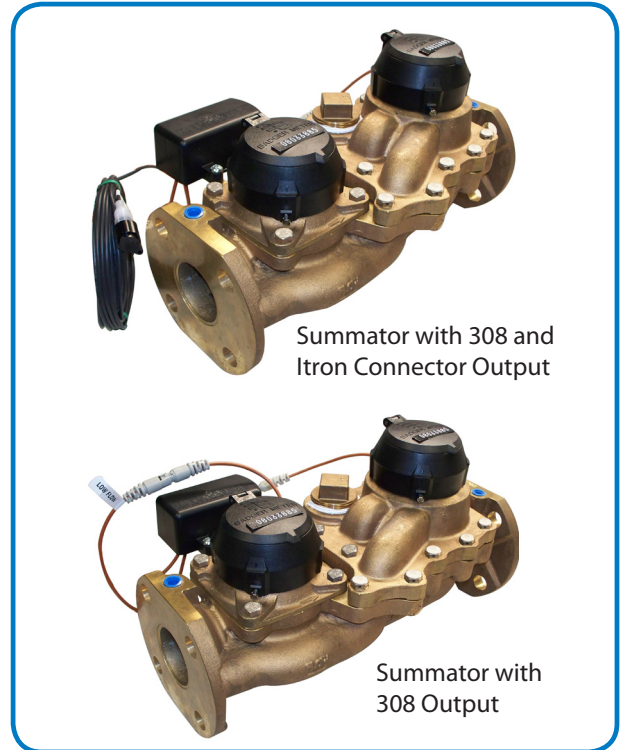
Operating range is -40°C to 60°C (-40°F to 140°F).

## ELECTRICAL

The electronic circuitry is designed to provide immunity to electrical surges and transients.

## SUMMATOR/SPLITTER SPECIFICATIONS

<b>Humidity Operating</b>	0 to 100% Condensing
<b>Temperature Output Signal</b>	-40 to 60°C (-40 to 140°F)
<b>Characteristics</b>	Open Drain (FET)
<b>Resolution</b>	1/10th of test circle of high flow RTR
<b>Typical Signal Duration</b>	22 ms to 42 ms over temperature range
<b>On State Resistance</b>	Less than 100 ohms @ 25°C (77°F)
<b>Off State Impedance</b>	Greater than 10 megohms
<b>Power Source</b>	Single Lithium Manganese Dioxide battery with battery life of 10 years under typical operating conditions
<b>Maximum Switching</b>	30 VDC @ 1 mA @ 25°C (77°F)



Summator with 308 and Itron Connector Output

Summator with 308 Output

## OPERATING CHARACTERISTICS

The Summator/Splitter has an output 1/10th of the test circle of the high flow Recordall Transmitter Register (RTR) with the characteristics of an open drain FET.

## 308 IN-LINE CONNECTOR SPECIFICATIONS

<b>Voltage Rating</b>	200 vrms maximum at sea level
<b>Operating Temperature</b>	-40°C to 85°C
<b>Durability</b>	Minimum 250 cycles
<b>Insulation Resistance</b>	Minimum 5000 megohms dry
<b>Contact Retention</b>	Minimum 10 pounds
<b>Submersion Rating</b>	Submersible up to 6 feet

## SINGLE REGISTER INPUT

Meter	Unit of Measure	Summator Ratio	Part Number (2) 308 Outputs	Part Number (1) Itron and (1) 308 Output
Disc, TSM	All	1:1	66690-002	66690-006
Dual RTR	All	10:1	66690-003	66690-007
Submersible Connector to 308 Connector Jumper Harness (required for Dual RTR with Summator/Splitter)			66958-001	

## DOUBLE REGISTER INPUT

Meter	Unit of Measure	Summator Ratio	Part Number (2) 308 Outputs	Part Number (1) Itron and (1) 308 Output
2" CSM	Gal, iGal	100:1	66690-004	66690-008
3" CSM	Gal, iGal	100:1	66690-004	66690-008
4" CSM	Gal, iGal	100:1	66690-004	66690-008
6" CSM	Gal, iGal	100:1	66690-004	66690-008
8" Combo	Gal, iGal	10:1	66690-003	66690-007
2" CSM	CuFt	100:1	66690-004	66690-008
3" CSM	CuFt	100:1	66690-004	66690-008
4" CSM	CuFt	100:1	66690-004	66690-008
6" CSM	CuFt	100:1	66690-004	66690-008
8" Combo	CuFt	10:1	66690-003	66690-007
2" CSM	M3	10:1	66690-003	66690-007
3" CSM	M3	10:1	66690-003	66690-007
4" CSM	M3	10:1	66690-003	66690-007
6" CSM	M3	100:1	66690-004	66690-008
8" Combo	M3	10:1	66690-003	66690-007
Special TC 4-6"	Gal CuFt	10:1	66690-003	66690-007
4" FSAA M70 Bypass	Gal, iGal	100:1	66690-004	66690-008
4" FSAA 2" TSM Bypass	Gal, iGal	1:1	66690-001	66690-005
6" FSAA w/M70 Bypass	Gal, iGal	100:1	66690-004	66690-008
6" FSAA w/M170 Bypass	Gal, iGal	10:1	66690-003	66690-007
6" FSAA 2" TSM Bypass	Gal, iGal	1:1	66690-001	66690-005
8" FSAA w/M170 Bypass	Gal, iGal	10:1	66690-003	66690-007
8" FSAA 2" TSM Bypass	Gal, iGal	1:1	66690-001	66690-005
10" FSAA	Gal, iGal	10:1	66690-003	66690-007
10" FSAA 2" TSM Bypass	Gal, iGal	1:1	66690-001	66690-005
12" FSAA	Gal, iGal	10:1	66690-003	66690-007
12" FSAA 2" TSM Bypass	Gal, iGal	1:1	66690-001	66690-005

## DOUBLE REGISTER INPUT, continued

Meter	Unit of Measure	Summator Ratio	Part Number (2) 308 Outputs	Part Number (1) Itron and (1) 308 Output
4" FSAA M70 Bypass	CuFt	100:1	66690-004	66690-008
4" FSAA 2" TSM Bypass	CuFt	1:1	66690-001	66690-005
6" FSAA w/M70 Bypass	CuFt	100:1	66690-004	66690-008
6" FSAA w/M170 Bypass	CuFt	10:1	66690-003	66690-007
6" FSAA 2" TSM Bypass	CuFt	1:1	66690-001	66690-005
8" FSAA w/M170 Bypass	CuFt	10:1	66690-003	66690-007
8" FSAA 2" TSM Bypass	CuFt	1:1	66690-001	66690-005
10" FSAA w/M170 Bypass	CuFt	10:1	66690-003	66690-007
10" FSAA 2" TSM Bypass	CuFt	1:1	66690-001	66690-005
12" FSAA w/M170 Bypass	CuFt	10:1	66690-003	66690-007
12" FSAA 2" TSM Bypass	CuFt	1:1	66690-001	66690-005
4" FSAA M70 Bypass	M3	10:1	66690-003	66690-007
4" FSAA 2" TSM Bypass	M3	1:1	66690-001	66690-005
6" FSAA w/M70 Bypass	M3	100:1	66690-004	66690-008
6" FSAA w/M170 Bypass	M3	10:1	66690-003	66690-007
6" FSAA 2" TSM Bypass	M3	10:1	66690-003	66690-007
8" FSAA w/M170 Bypass	M3	10:1	66690-003	66690-007
8" FSAA 2" TSM Bypass	M3	10:1	66690-003	66690-007
10" FSAA w/M170 Bypass	M3	10:1	66690-003	66690-007
10" FSAA 2" TSM Bypass	M3	10:1	66690-003	66690-007
12" FSAA w/M170 Bypass	M3	10:1	66690-003	66690-007
12" FSAA 2" TSM Bypass	M3	10:1	66690-003	66690-007

**NOTE:** All part numbers are valid as stand-alone numbers and via the "configurator" at the time of ordering.

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