

DESCRIPTION

APPLICATION/OPERATION: The Electronic Reading Collectors consist of two similar products: The Summator/Splitter and the Summator/Converter. Both products are designed to work with the Recordall® Transmitter Registers (RTR®) on the Recordall Compound Series meter.

The Summator/Splitter product has the Summator function which combines the readings of the high flow and low flow RTRs and sends a totalized output compatible with Itron® ERT®, ORION® and TRACE® modules. It also has a Splitter function which, if desired, provides two (2) separate outputs of the same total from the Summator function.

The Summator/Converter has the Summator function which combines the readings of the high flow and low flow RTRs and the Converter function which sends a totalized output compatible with the 570 Read-O-Matic® register.

MOUNTING: The Summator/Splitter and the Summator/Converter are attached to the Recordall Compound Series meter and connected to the RTRs using a waterproof connector.

CONSTRUCTION: The housing is constructed of high strength, corrosion-resistant polymer. The electronics are factory potted to insure long operating life.

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

MOISTURE: The Electronic Reading Collectors are water resistant and designed for use in flooded meter pits or vaults.

ELECTRONICS: The circuit board is completely sealed against moisture by being potted in place to assure protection from water.

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

OPERATING CHARACTERISTICS: The Summator/Splitter has an output 1/10th of the test circle of the high flow RTR with the characteristics of an open drain FET. The Summator/Converter has an active output pulse with a resolution of one pulse per 10 revolutions of the test circle of the high flow RTR. This active output is compatible with the 570 register.



SUMMATOR/SPLITTER SPECIFICATIONS

Humidity	0 to 100% Condensing
Operating Temperature	-40 to 60°C (-40 to 140°F)
Output Signal Characteristics	Open Drain (FET)
Resolution	1/10th of Test Circle of High Flow RTR
Typical Signal Duration	22 ms to 42 ms Over Temperature Range
On State Resistance	Less than 100 Ohms @ 25°C (77°F)
Off State Impedance	Greater than 10 Meg Ohms
Power Source	Single Lithium Manganese Dioxide Battery with battery life of 10 years under typical operating conditions
Maximum Switching	30 VDC @ 1 mA @ 25°C (77°F)

SUMMATOR/CONVERTER SPECIFICATIONS

Humidity	0 to 100% Condensing
Operating Temperature	-40 to 60°C (-40 to 140°F)
Resolution	1 Pulse per 10 Revolutions of Test Circle of High Flow RTR
Typical Signal Duration	22 ms to 42 ms Over Temperature Range
Power Source	Four Lithium Manganese Dioxide Batteries with battery life of 10 years under typical operating conditions

SUM-T-33

10-03

Recordall®, ORION® and RTR® are registered trademarks of Badger Meter, Inc. TRACE® is a registered trademark of American Meter Company. Itron® and ERT® are registered trademarks of Itron, Inc.



Please see our website at
www.badgermeter.com
for specific contacts.

Due to continuous research, product improvements and enhancements, Badger Meter reserves the right to change product or system specifications without notice, except to the extent an outstanding bid obligation exists.



BadgerMeter, Inc.

P.O. Box 245036, Milwaukee, WI 53224-9536
(800) 876-3837 / Fax: (888) 371-5982

www.badgermeter.com