

260-RGAI-1 Rain Gauge Analog Interface

The **260-RGAI-1** provides an interface between a tipping bucket rain gauge and a data acquisition device (DAQ). It is intended for use in industrial applications, where a 4-20mA or a 0-5V analog input is required by a DAQ to accurately record rainfall accumulation.

The case is constructed from glass-filled polycarbonate, which will provide years of protection to the internal circuitry. The back side is DIN rail compatible and can be mounted to any flat surface. Weatherproof enclosures are available.

Features

- ❖ DIP switch configuration
 - 4-20mA, 0-20mA, 0-24mA or 0-5V output
 - 1", 5", or 10" range (100, 500, 1000 tips)
 - Test Mode
- ❖ Optically isolated inputs
 - Digital Input (rain gauge)
 - Voltage pulse reset input
- ❖ DIN rail or panel mountable
- ❖ Weatherproof enclosure available



Supply Voltage	12 to 24 VDC
Reset Voltage	12 to 24 VDC
Reset Pulse Duration	Greater than 100 mS
4-20mA Loop Impedance	Less than 1000 ohms
Temperature Range	-40° F to +140° F (-40° C to +60° C)
Dimensions	4.567in. X 2.756in. X 1.772in. (116mm x 70mm x 45mm)

Ordering Information

260-RGAI-1 Rain Gauge Analog Interface

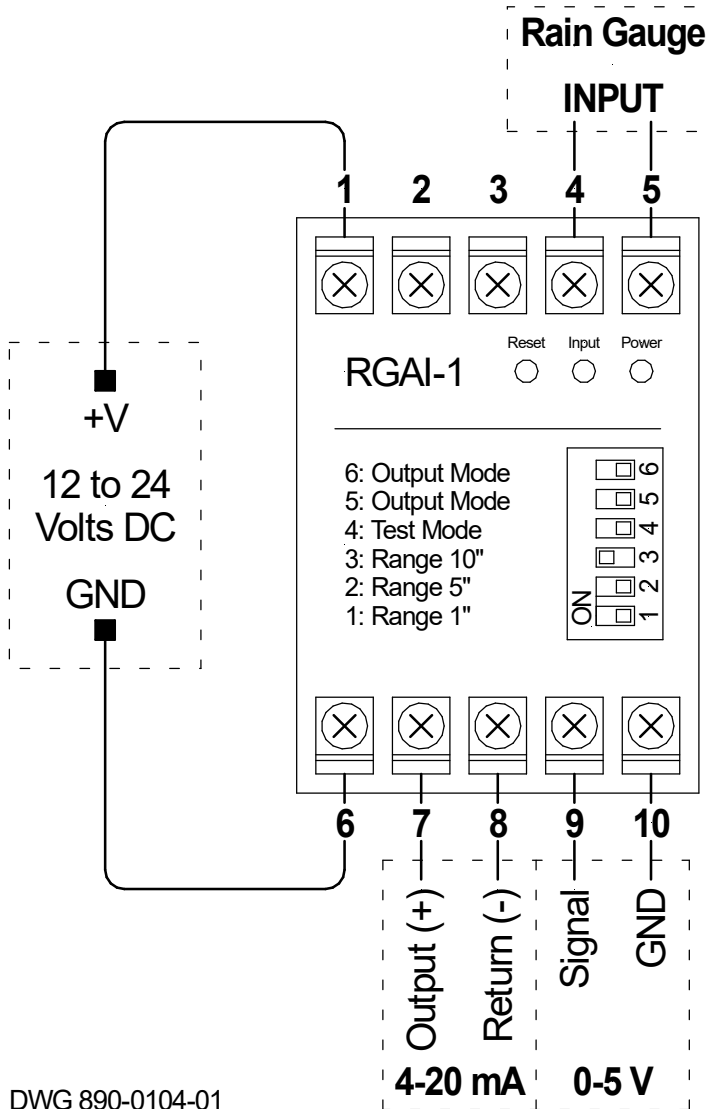
Compatible Rain Gauges*

260-2500 8" Rain Gauge
 260-2500-12 12" Rain Gauge
 260-2501 8" Rain Low Cost Rain Gauge
 260-6011 8" Precision Rain Gauge
 260-0111 8" Plastic Rain Gauge

* This list is not exhaustive. Most tipping bucket rain gauges are compatible.

Note: The range of the analog output in inches applies to rain gauges that are calibrated to 0.01" per tip. When used with rain gauges calibrated to other units (e.g. millimeters), the full scale range is the calibration factor multiplied by the number of tips. Example: For a gauge calibrated to 1 mm per tip, the full scale is 1 mm x 1000 = 1000 mm (DIP Switch 3 ON)

DEFAULT SETTINGS: 4-20mA Output, 10" Range, Test Mode OFF



DIP Switch 5	DIP Switch 6	Operational Mode
OFF	OFF	4-20 mA
ON	OFF	0-20 mA
OFF	ON	0-24 mA
ON	ON	0-5 V

DWG 890-0104-01

Terminal	Function
1	+V Supply (12 to 24 VDC)
2	RESET Signal
3	RESET GND
4	Rain Gauge Input #1
5	Rain Gauge Input #2
6	GND Supply
7	4-20mA Output
8	4-20mA Return
9	0-5V Signal
10	0-5V GND