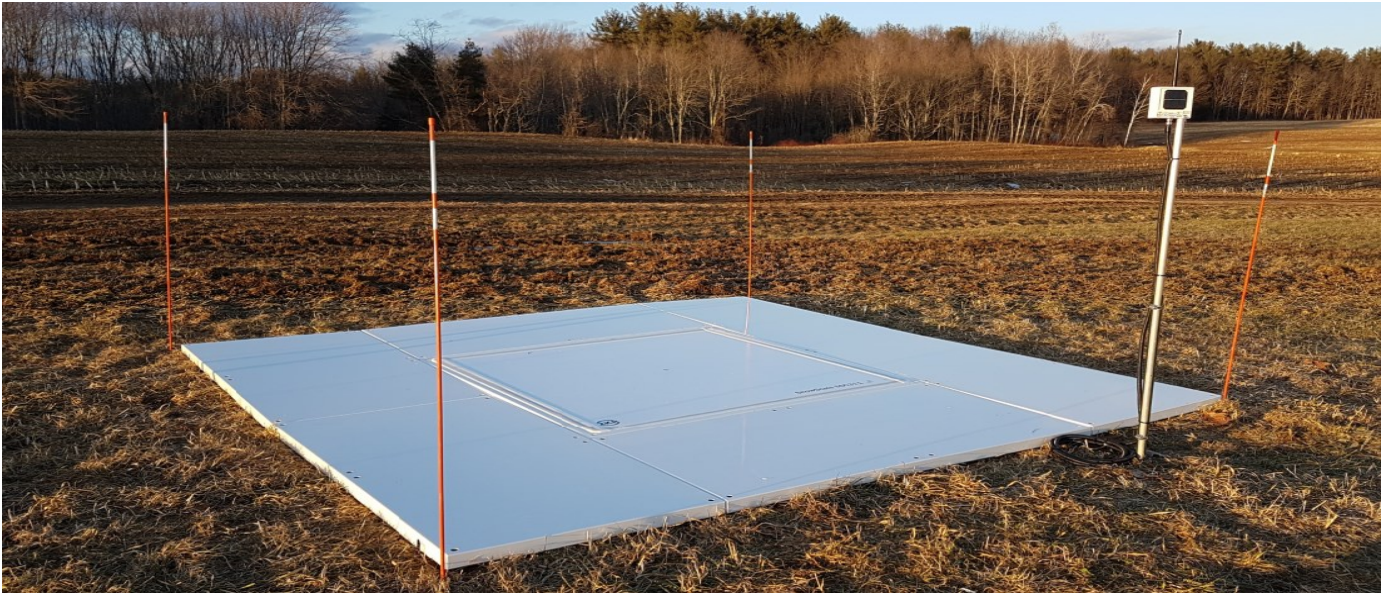




SnowScale™ SSC311 & SSC611

Patent Pending

2KR Systems



DESCRIPTION

The SSC311 and SSC611 SnowScales are precision Snow Water Equivalent (SWE) measurement instruments designed for quick assembly and implementation in the field. The SSC311 and SSC611 utilize temperature compensated force sensors to accurately measure up to 300mm and 600mm SWE. Since no liquid anti-freeze is used there is no chance of leaks. Passive perimeter panels minimize the effects of ice bridging commonly experienced mid to late in the measurement season. The use of lightweight aluminum materials minimize thermal resistance improving heat flow throughout the device for better emulation of natural conditions. The SSC311 and SSC611 connect to the datalogger's SDI-12 serial port or analog input(s).

FEATURES

- Fast setup. On a smooth grade 1 person assembles the array in less than 20 minutes using a screwdriver.
- 1.5m² (16ft²) weighing plate is over 3X larger than previous SnowScales for higher accuracy.
- Measure up to 300mm (12in) or 600mm (24in) SWE with IP68 sealed precision force sensors.
- System Controller outputs SDI-12 serial data (SWE, individual sensor values, temperature and system status) and a single 12bit analog channel.
- Additional active weighing panels can be added for improved accuracy & redundancy (e.g. 1x2, 2x2, 3x3 etc.)

APPLICATIONS

- ◆ Flood Risk Assessment
- ◆ Water Resource Management
- ◆ Hydropower Predictions
- ◆ Climate Studies
- ◆ Precipitation Monitoring

Call or email us to discuss your application and to see how the SnowScale can be used to enhance your SWE measurement program.

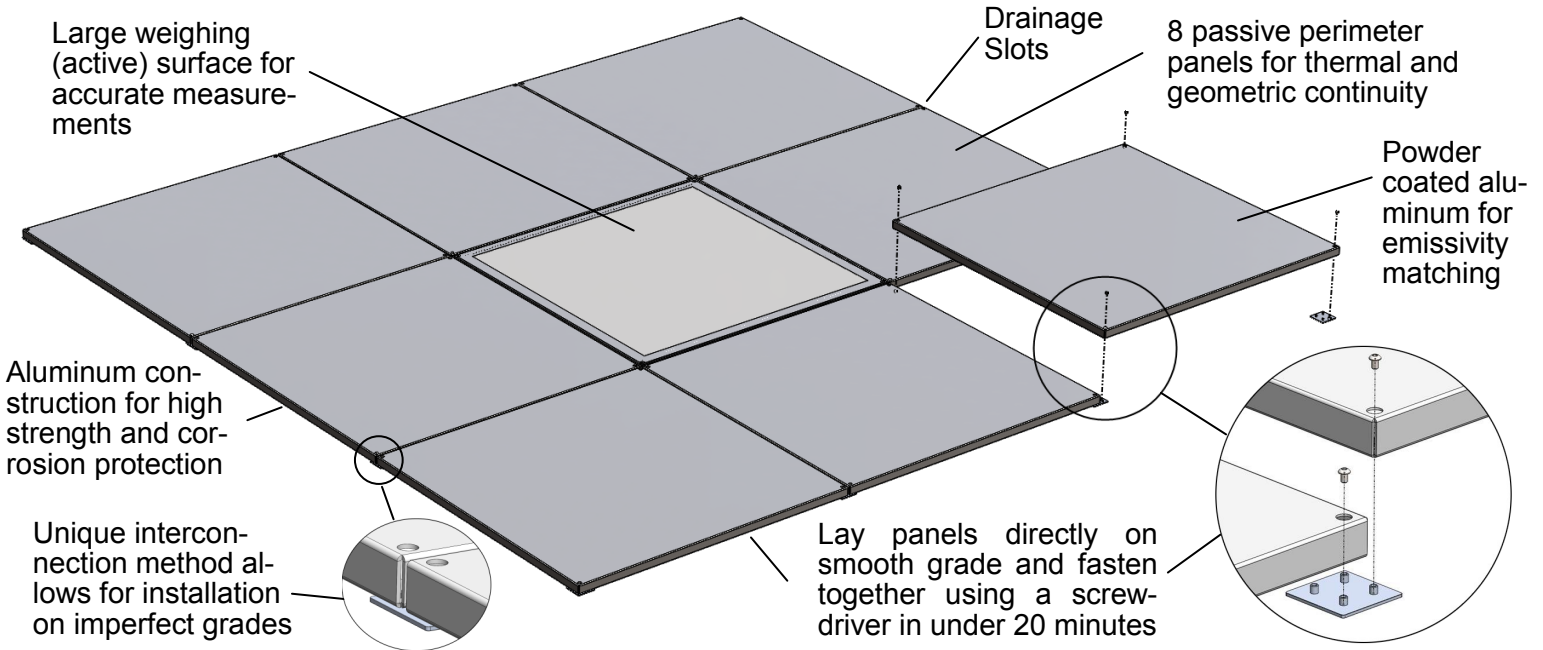
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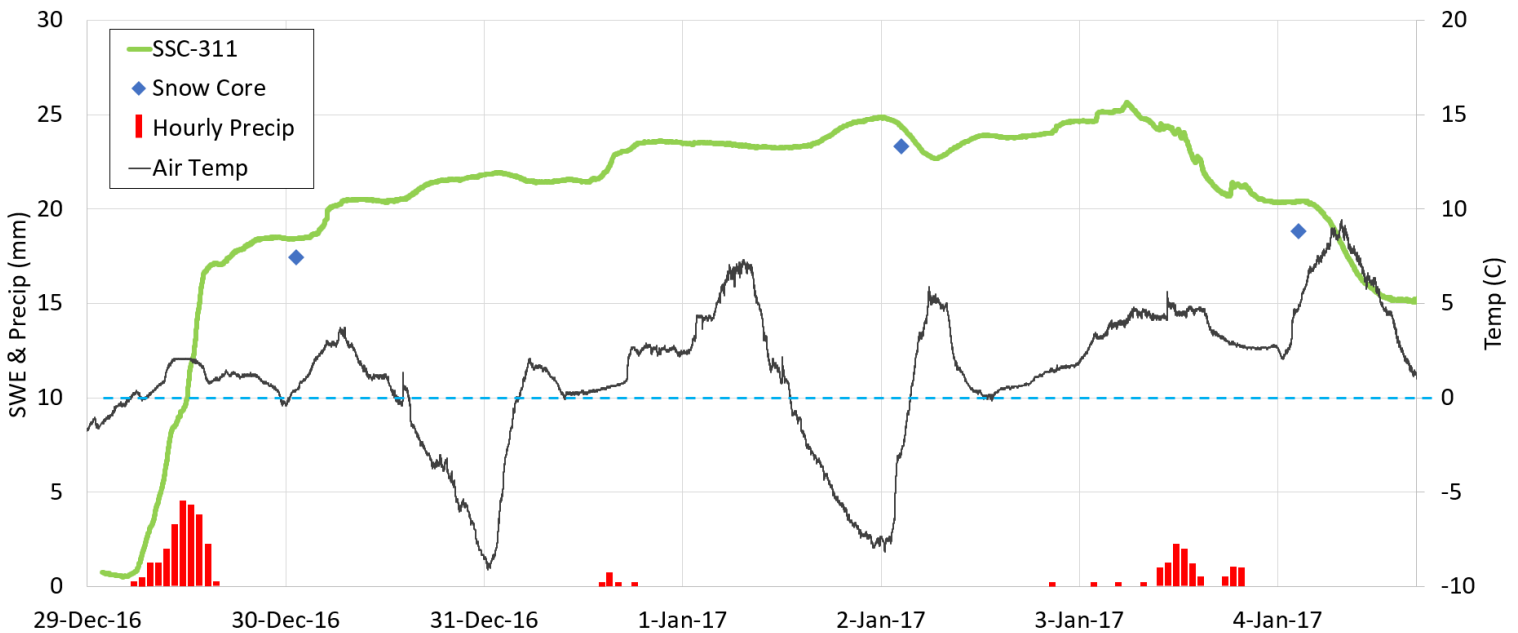
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SWE, PRECIPITATION and TEMPERATURE DATA



2KR Systems Test Site, Barrington, NH

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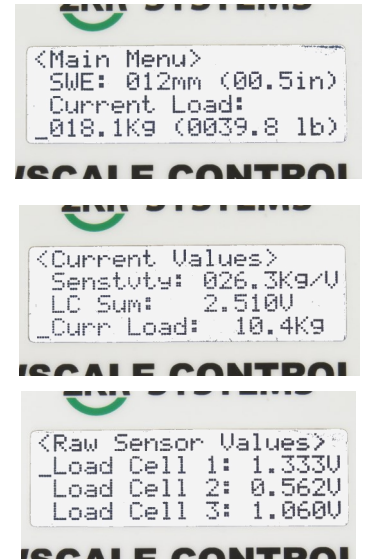
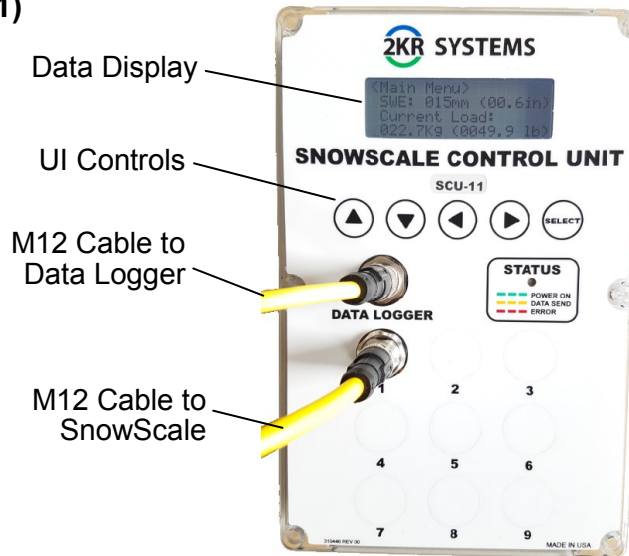
SnowScale™ SSC311 & SSC611

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SnowScale Control Unit (SCU-11)

The **SCU-11** SnowScale Control Unit (SCU) is sold with the SnowScale and is the most efficient way to connect to your data logger, display and set values and get the information flowing quickly. The SCU interrogates the SnowScale then combines analog sensor channels to calculate SWE and total load (Kg & lbs). It also stores tare and sensitivity values in non-volatile memory and passes the data to the data logger via bidirectional serial communication such as the popular SDI-12 interface. It only draws power when a sample is taken then can be shut off by the data logger. C.S. CR-1000 code included.

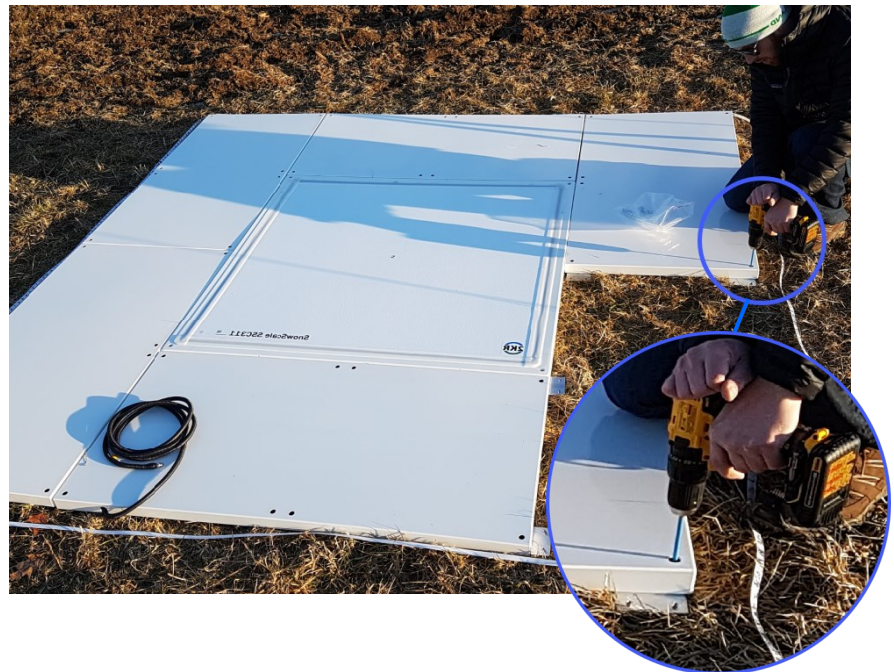


COMPONENTS AND SETUP

What's Included:

- (1) SnowScale Active Sensor Panel
- (1) SnowScale Control Unit (SCU-11)
- (12) Passive Ground Panels
- (20) Connection Plates & Fasteners
- (1) 10 Meter Data Logger Cable
- (1) 5ft Fence Post for SCU
- (1) SCU Pole Mount Kit
- (4) Fiberglass Marker Poles
- (1) Instruction Manual

1 to 2 Person Fast Setup



Setup

1. Prep the site—smooth the grade.
2. Secure the passive panels to central sensor panel using the connection plates.
3. Mount the SCU on a post and connect two cables.
4. Load the code and collect data!

Call or email us to discuss your application and to see how the SnowScale can be used to enhance your SWE measurement program.

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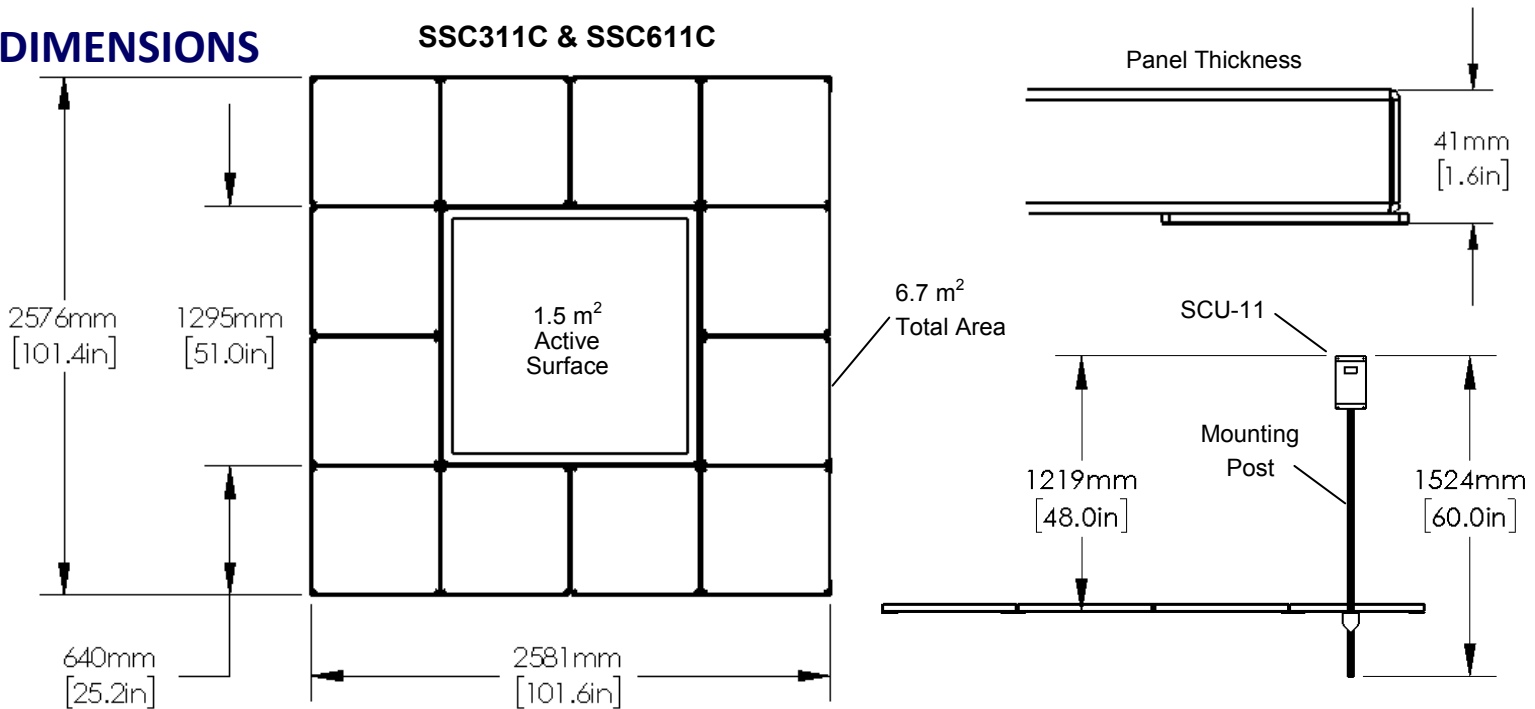
SnowScale™ SSC311 & SSC611

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DIMENSIONS

SSC311C & SSC611C



SPECIFICATIONS

Capacity SWE

SSC-311 (P/N 110593): 300mm (12 in)

SSC-611 (P/N 110594): 600mm (24 in)

Sensor Accuracy: +/- 1% FS BSLF (Standardized Weights)

Thermal Error: +/- 1%

Operating Temperature: -40C to 60C

Power Requirements: 8-30 VDC, 40mA at 12VDC typical. Can be shut off between samples.

Controller Serial Output: SDI-12 (standard) & MODBUS (option)

Data String Out: SWE, Load, Force Sensor Voltages, Calibration Values, System ID and Status

Controller Analog Output: 0.5 to 4.5 VDC, 12bit (0 to Capacity SWE) (option)

Max Grade: 10°

Ingress Protection: IP68

Shipping Dimension: 134cm (53") L x 134cm (53") W x 30cm (11") H for SSC311C and SSC611C

Shipping Weight: 84Kg (185 lbs) nominal for SSC311C and SSC611C

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