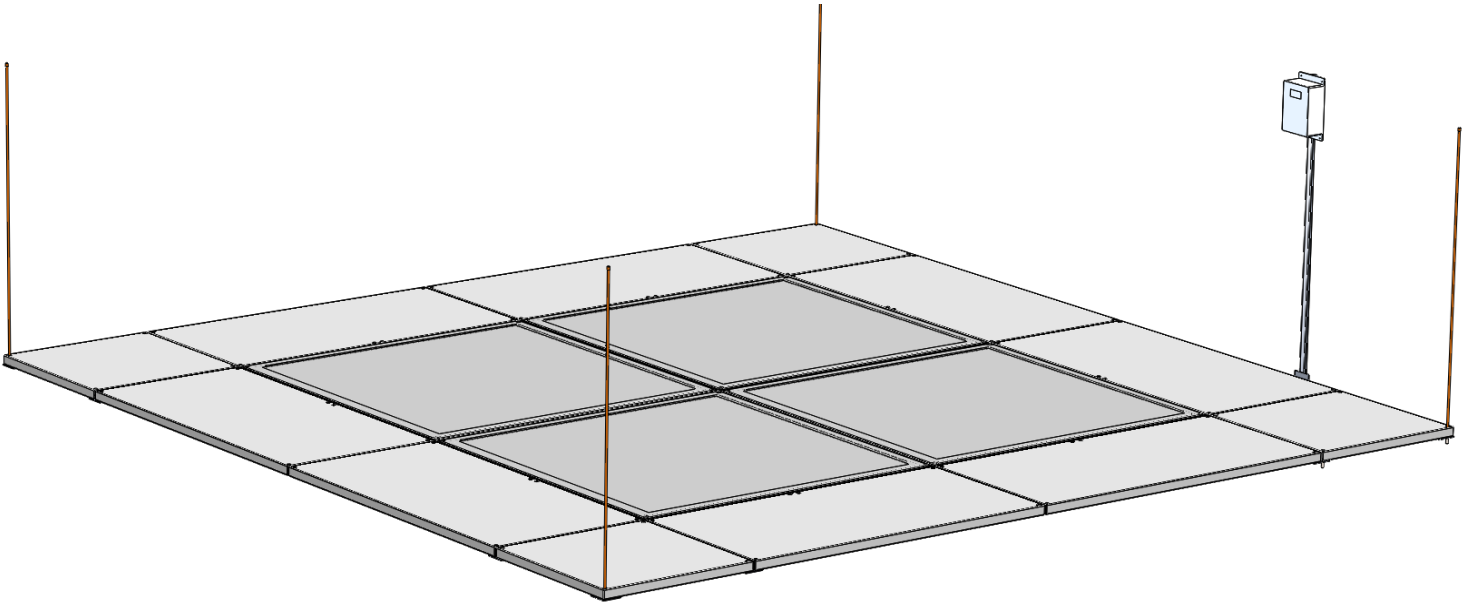




SnowScale™ SSC1222 & SSC2422

Patent Pending

2KR Systems



DESCRIPTION

The SSC1222 and SSC2422 SnowScales are precision Snow Water Equivalent (SWE) measurement instruments designed for quick assembly and implementation in the field. The SSC1222 and SSC2422 utilize temperature compensated force sensors to accurately measure up to 1200mm (48 inch) and 2400mm (96 inch) 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 SSC1222 and SSC2422 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 about 30 minutes using a screwdriver.
- Four 1.5m² (16ft²) weighing plates are 4X larger than the SSC311/611 SnowScales for higher accuracy.
- Measure up to 1200mm (48in) or 2400mm (96in) 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.
- Active weighing panels can be grouped for improved accuracy, redundancy and for meeting site and budgetary constraints (e.g. 1x1, 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.

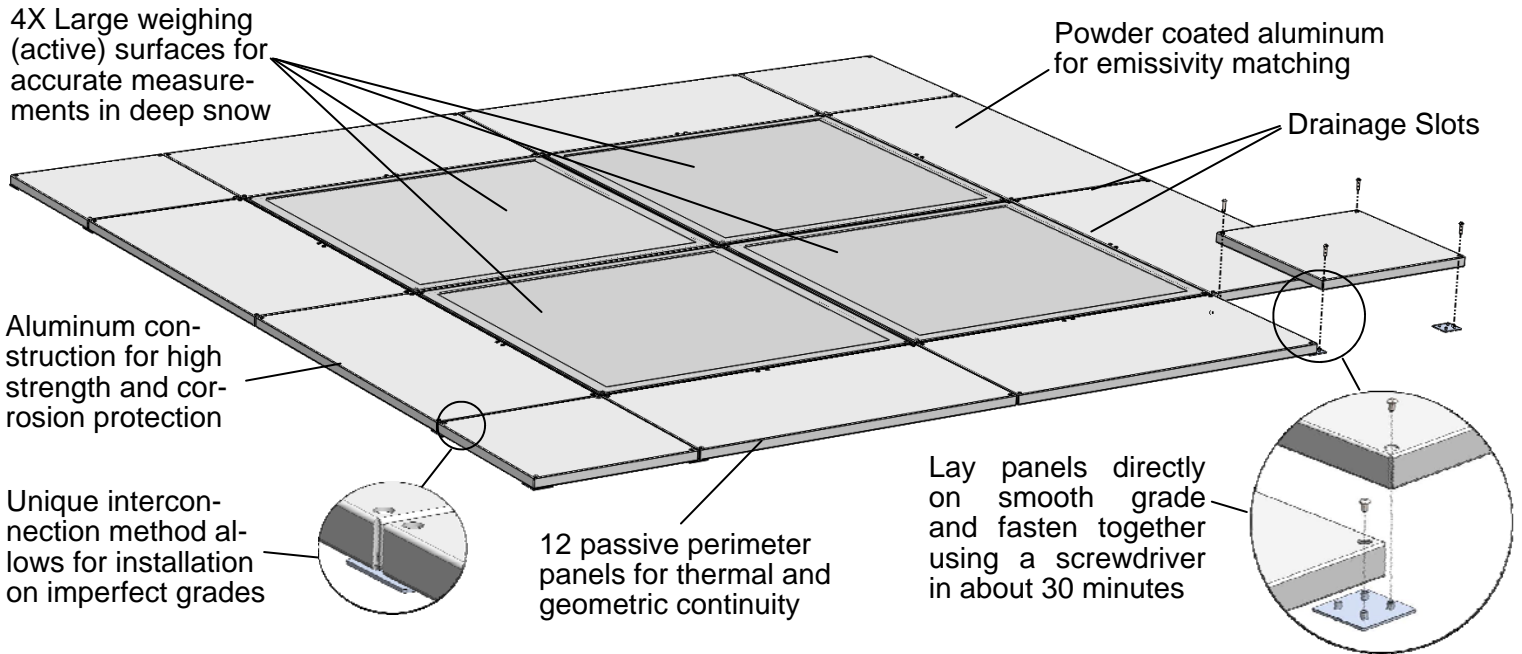
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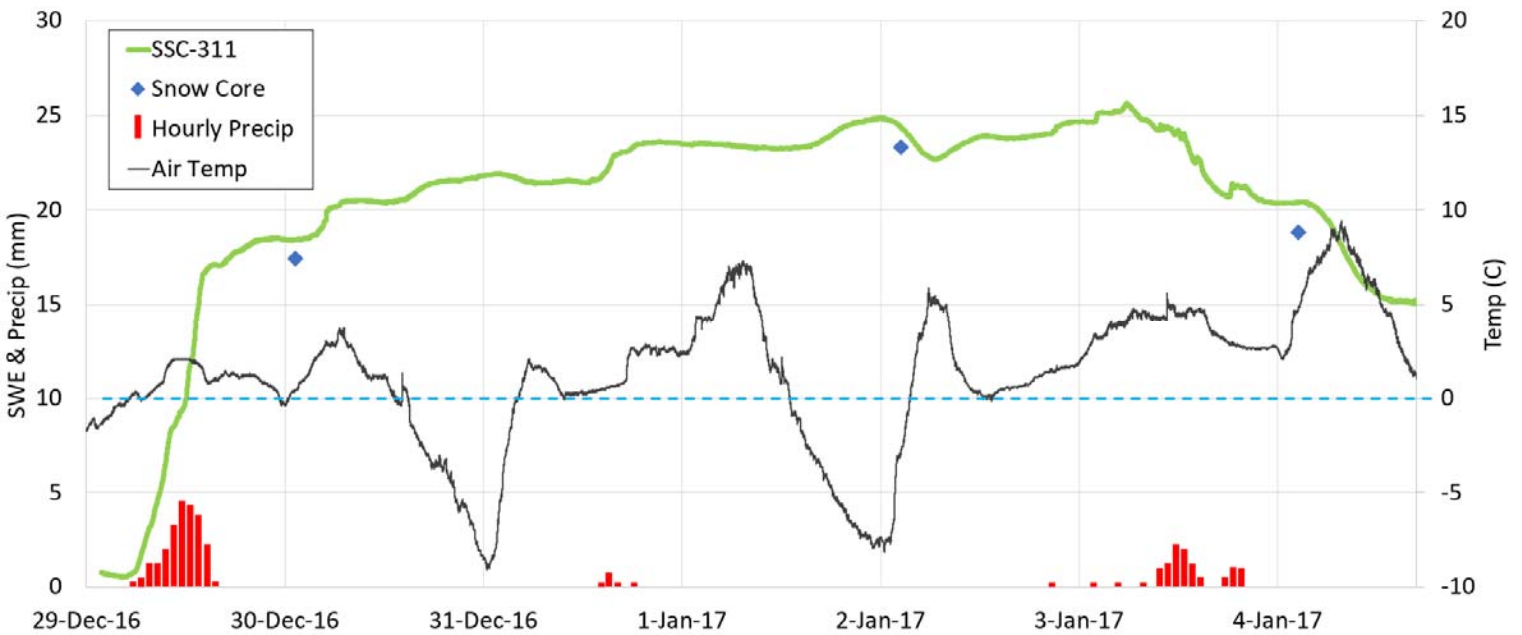
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SWE, PRECIPITATION and TEMPERATURE DATA



2KR Systems Test Site, Barrington, NH

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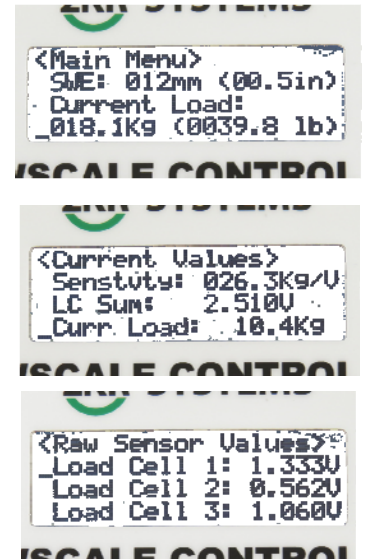
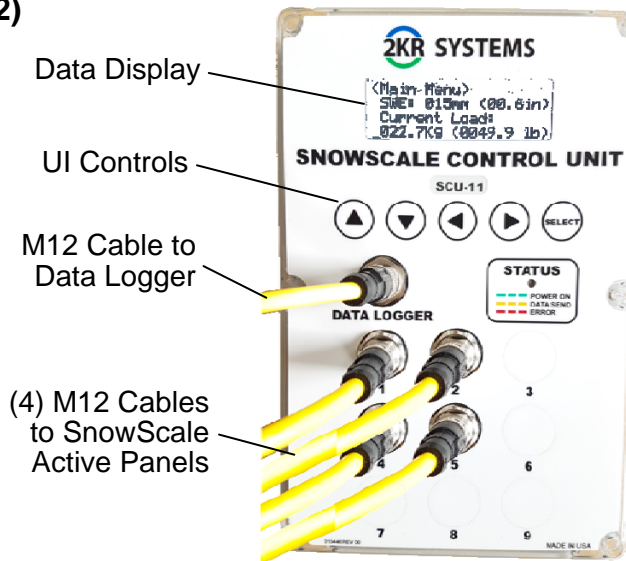
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SnowScale Control Unit (SCU-22)

The **SCU-22** SnowScale Control Unit (SCU) is used 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:

- (4) SnowScale Active Sensor Panel
- (1) SnowScale Control Unit (SCU-22)
- (20) Passive Ground Panels
- (40) Connection Plates & Fasteners
- (4) 10 Meter Scale to SCU Cables
- (1) 10 Meter Data Logger Cable
- (4) Flex Conduit
- (8) Fiberglass Marker Poles
- (1) Instruction Manual

1 to 2 Person Fast Setup



SSC311 shown above

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!

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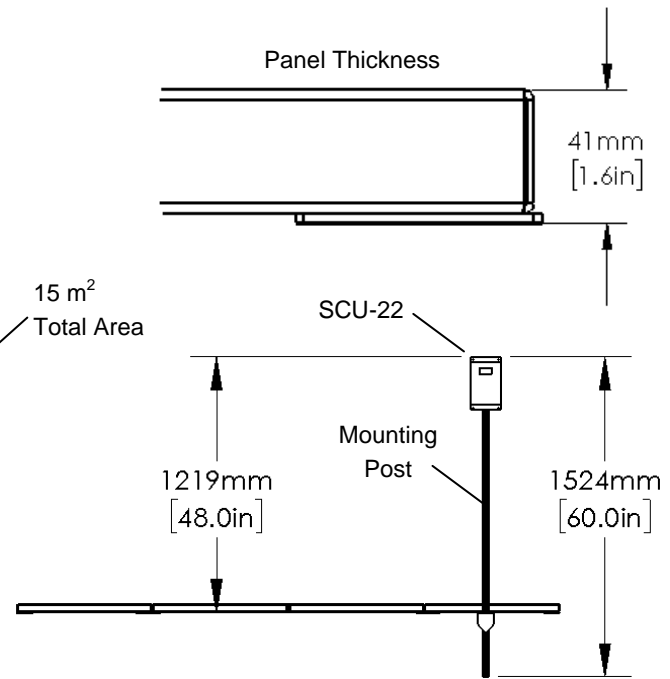
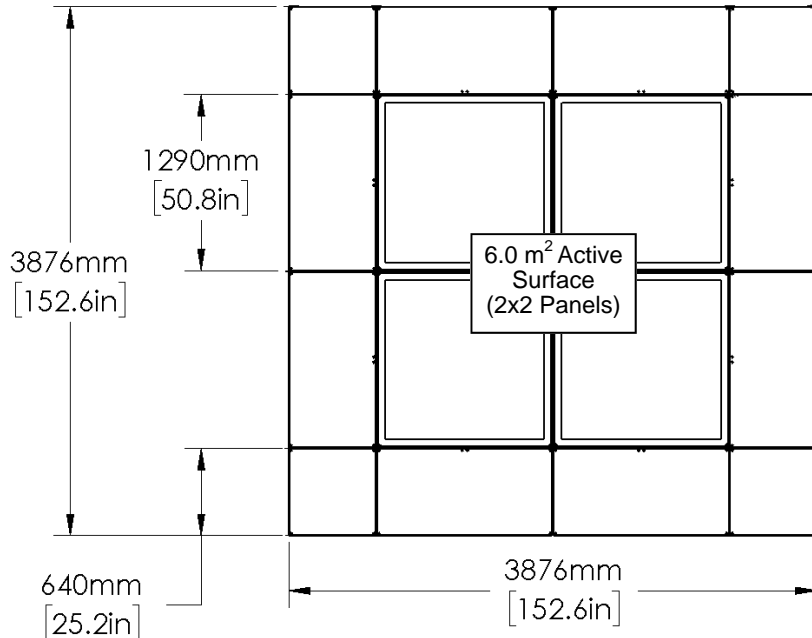
SnowScale™ SSC1222 & SSC2422

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DIMENSIONS

SSC1222 & SSC2422



SPECIFICATIONS

Capacity SWE

SSC-1222 (P/N 110599): 1200mm (48 in)

SSC-2422 (P/N 110600): 2400mm (96 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 56cm (22") H for SSC1222 and SSC2422

Shipping Weight (Net): 255Kg (563 lbs) nominal for SSC1222 and SSC2422

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