

The IRROMETER RSU-C is a 4-20mA current output sensor representing 0 to 100 kPa (cb) of soil water tension, which can be installed in the gauge port of any IRROMETER Tensiometer to make it compatible with IoT or control devices.

Device Specifications:

INPUT: 9-36VDC

OUTPUT: 4 - 20 mA

SPAN: 16 mA

TENSION RANGE: 0 - 100 kPa (cb)

CALIBRATION: 0.16 mA/kPa(cb)

SUPPLY CURRENT: 4-20mA

RESPONSE TIME: 400 msec

Operation:

9-36VDC is supplied to the RSU-C using the RED (+) and BLACK (-) wires. The output is obtained by measuring the current in series on the RED (+) wire.

Output Conversion:

$(\text{Output} - 4) / 0.16 = \text{kPa (cb) of soil water tension}$

Cable Considerations:

Each RSU-C comes with 3ft of 20AWG 2c cable, but additional cable can be added if necessary using recommended 18-20 AWG 2c cable and waterproof splices.

IMPORTANT NOTES:

Do not use water containing chlorine or sulfur in tensiometers equipped with an RSU-C.

When de-airing or servicing an RSU-C equipped tensiometer, care must be taken to release the vacuum slowly. A sudden release of vacuum could cause damage to the pressure transducer, requiring complete replacement of the sensor.

