

AVS – Automatic IRROMETER Option

Features:

- Activated switch at moisture set point
- Available for AC or DC circuits
- Available with switch closed past setting
- Sealed from dirt and moisture
- Compatible with any conventional 24 VAC valve system and DC controllers with a sensor circuit



"AVS" Automatic Vacuum Switches are designed for use on IRROMETER instruments and provide direct switching capabilities according to soil moisture status. Soil water tension readings greater than the moisture set point can activate an irrigation valve solenoid, time clock or warning device. A switch mechanism is mounted on the instrument body and can be field adjusted by hand to the desired set point. The switch scale reads in centibars (cb) or kilopascals (kPa) of soil water tension.

Specifications:

OUTPUT: Open/Closed

WEIGHT: 0.2 lbs. (0.09 kg)

DIMENSIONS: Body Length = 3.75-inch (95 mm) HEX = 1.0 inch (25 mm)

CABLE: 18" Wire Leads

RANGE: 5 to 85 centibar (kPa) with less than 10% of actuation point differential

OPERATING TEMPERATURE: 32° to 150° F (0° to 66° C)

CONNECTION: 1/4-inch brass male NPT

MECHANISM: SPST Snap action switch with Buna-N diaphragm, closed at and drier than set point, rated for 1,000,000 cycles

SWITCH RATING: 24 VAC 10 amp maximum. Includes 18-inch (45 cm) AWG 18 wire leads

REPEATABILITY CATEGORY: ± 2% of full set point range at 70°F (21°C) Ambient Temp

PROTECTION CATEGORY: IP 69

COMPLIANCE: CE, RoHS

RSU-V - Voltage Output IRROMETER Option

Features:

- Low-cost voltage transducer
- Standard voltage output signal
- Temperature compensated
- Available in 0-94 cb (kPa) for all models
- Designed for limited wiring distances



The "V" Series Voltage Option is designed for use on IRROMETER instruments to indicate soil moisture electronically. The output can be read by many devices including the IRROMETER IC-10 and 900M.

Specifications:

OUTPUT: 0.5 to 4.5 VDC, 2.5 mA

ACCURACY: ± 2% of Full Scale

RESOLUTION: 0.3 kPa

WEIGHT: 2.16 oz. (61.22 g)

DIMENSIONS: 1 in. high x 1 in. wide x 1.88 in. deep (25mm high x 25mm wide x 30 mm deep)

CABLE: 10' (305 cm) 3 conductor AWG 22

SUPPLY VOLTAGE: 5 VDC (± 0.5 VDC)

SUPPLY CURRENT: 10 mA

RANGE: 0-94 cb (kPa)

OPERATING TEMPERATURE: 32° to 150° F (0° to 66° C)

CONNECTION: 1/4-inch brass male NPT

COMPLIANCE: CE, RoHS

RSU-C Current Output IRROMETER Option

Features:

- Weatherproof 304 stainless steel body
- Temperature compensated
- 4-20mA industry standard



"C" Series Remote Sensing Units are designed for use on IRROMETER instruments to indicate soil moisture levels by converting the reading to a 4-20 mA current signal. The output can be read by a data logger, PLC, or other reading device.

Specifications:

OUTPUT: 4 to 20 mA current
ACCURACY: $\pm 0.5\%$ of Full Scale
WEIGHT: 0.24 lbs. (109 g)
DIMENSIONS: Body Length 1.75-inch (44 mm) HEX 0.94 inch (24 mm)
CABLE: 36" (90 cm) 2 conductor AWG 20
SUPPLY VOLTAGE: 9 to 36 VDC
SUPPLY CURRENT: 20 mA
RANGE: 0-100 cb (kPa)
OPERATING TEMPERATURE: 32° to 150° F (0° to 66° C)
CONNECTION: 1/4-inch brass male NPT
PROTECTION CATEGORY: IP65
COMPLIANCE: CE, RoHS

Part numbering nomenclature for ordering:

IRROMETER Model

R = 1 _ _
 SR = 2 _ _
 TG = 3 _ _
 LT = 5 _ _
 *S = 200
 **MLT = MLT

Body Length

06" (15 cm)
 12" (30 cm)
 18" (45 cm)
 24" (60 cm)
 36" (90 cm)
 48" (120 cm)

206 - RSU-V

Output Option

206-V example

This is a Model SR with a 6" body and an optional Voltage Output RSU.

**The Model 200 uses its own unique interchangeable extension tips — available in lengths from 6" (15 cm) to 48" (120 cm).*

***The Model MLT is available in 6" (15 cm) length only.*

VOLTAGE OUTPUT REMOTE SENSING UNIT
-RSU-V [0-94 cb (kPa)]

CURRENT OUTPUT REMOTE SENSING UNIT
-RSU-C [0-100 cb (kPa)]

AUTOMATIC OPTION

-AVS

*For Models R, S, SR, TG, LT
 Model MLT requires an adapter*