

IRROMETER®

Model "R"/"SR"

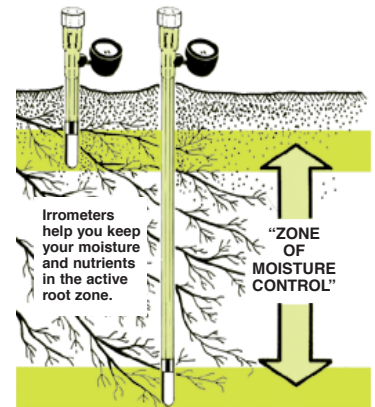
The IRROMETER tells WHEN and HOW MUCH to irrigate!

*how it tells at a glance
your exact soil moisture!*

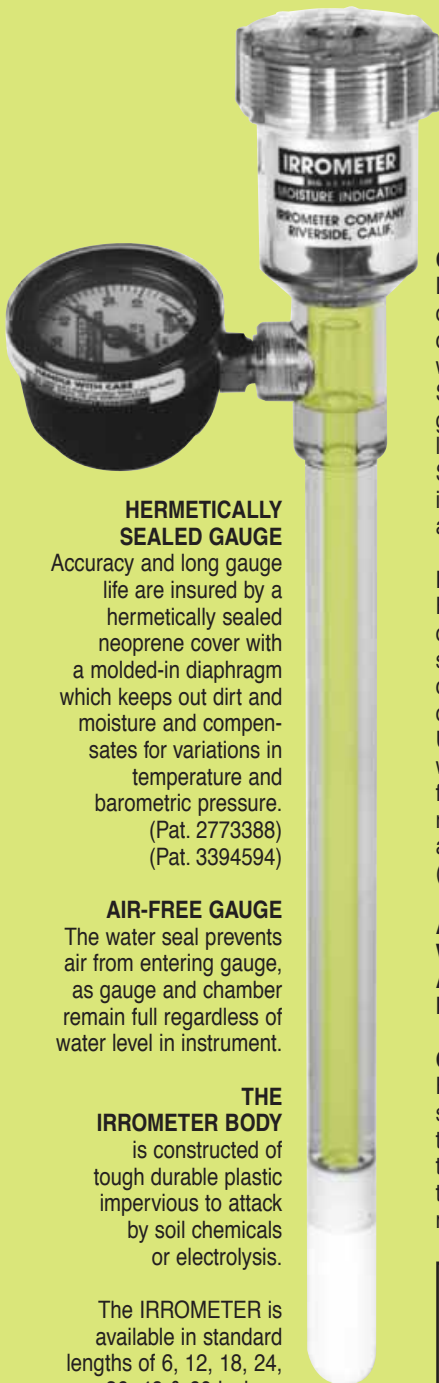
The IRROMETER operates on the tensiometer principle, which is entirely different from other systems which measure percent of moisture. The IRROMETER consists of a sealed water filled tube equipped with a special vacuum gauge and with a porous tip that is installed in the ground at desired root zone depths. In dry soil, water is drawn out of the instrument, reducing the water volume in the instrument, and creating a partial vacuum which is registered on the gauge. The drier the soil, the higher the reading.

An irrigation reverses this action. The vacuum created by dry soil draws water back into the instrument from the soil, which in turn results in a lower gauge reading.

The instrument is in effect a "dummy root" equipped with a gauge that continuously registers "how hard the roots are working". A gauge reading of 50 indicates that the roots are extracting the same amount of moisture whether the crop is planted in sandy soil or clay soil. Due to the IRROMETER'S unique principle of operation, no calibrations are necessary under normal operating conditions for different soil types.



The IRROMETER, first introduced in 1952, has continuously been the leader with every exclusive feature symbolic of the finest.... No other tensiometer offers the RUGGED DEPENDABILITY, LONG LIFE and RELIABILITY of the IRROMETER.



HERMETICALLY SEALED GAUGE

Accuracy and long gauge life are insured by a hermetically sealed neoprene cover with a molded-in diaphragm which keeps out dirt and moisture and compensates for variations in temperature and barometric pressure. (Pat. 2773388) (Pat. 3394594)

AIR-FREE GAUGE

The water seal prevents air from entering gauge, as gauge and chamber remain full regardless of water level in instrument.

THE IRROMETER BODY

is constructed of tough durable plastic impervious to attack by soil chemicals or electrolysis.

The IRROMETER is available in standard lengths of 6, 12, 18, 24, 36, 48 & 60 inches.

CLOSURE

Large cap for easy operation and better control. Cap removed when filling reservoir. Submerged valve gives a positive leakproof seal. Servicing is instantaneous—a twist of the wrist.

RESERVOIR

Holds a reserve supply of fluid sufficient for several irrigation cycles under average operating conditions. Unscrewing cap part way releases air and fills tube. (This is to replace fluid lost by action of drying soil.) (Pat. 2878671)

ALL SOLVENT WELDED JOINTS ARE PERMANENTLY LEAKPROOF

CERAMIC TIP

Has many times the strength of conventional tips. It is more porous to give quick response to variations in soil moisture.

MODEL "SR" (not pictured)

Threaded tip connection make tip replacement easy. Uses o-ring seal.

IRROMETER
REG. U.S. PAT. OFF.
MOISTURE INDICATOR

Irrrometer Lengths and Placement Depths

The following are suggested placement depths for various crops based on deep, well drained soils. Instruments may be angled or set more shallowly in lighter or shallow soil. **With drip/micro irrigation 12", 24" depths are recommended**, with an added 36" depth on deeper rooted crops.

CROP	Shallow Instrument (Inches)	Deep Instrument (Inches)	For Extra Depth, Set at (Inches)	CROP	Shallow Instrument (Inches)	Deep Instrument (Inches)	For Extra Depth, Set at (Inches)
Alfalfa	18-24	36-48	60-70	Melons	18	36	
Almonds	24	48	72	Milo	24	48	
Apples	20	40	60	Mint	12	24	
Apricots	24	48	72	Monterey Pines, Firs	12	24	
Artichokes	18	36		Mums	12	(Placed 4-6")	
Asparagus	18-24	36-48		Mustard	18	36	
Avocados	12	24	36	Nectarines	18	36	
Bananas	12	24		Oats	18	36	
Barley	18	36		Okra	18	36	
Beans (bush)	10		18	Olives	24	48	60
Beans (Lima)	18	36		Onions	12		
Beans (Pole)	18	36		Papaya	12	24	
Beets (sugar)	18	36		Parsnips	18	36	
Beets (table)	12-18	24-36		Peaches	18	36	60
Blueberries	12	24		Peanuts	12	24	
Broccoli	12	20		Pears	18	36	48
Cabbage	12	20		Peas	18	36	
Canaigre	18	36	48	Pecans	18	36	48
Cantaloupe	18	36		Peppers	15	30	
Carnations	12	(Placed 4-6")		Permanent Pastures	8-15		24-30
Carrots	12	24		Persimmons	18	36	
Cauliflower	12	24		Pineapple	15	30	
Celery	10	20		Pistachio Nuts	24	48	60
Chard	12	24		Pomegranates	18	36	
Cherries	24	48		Potatoes (Irish)	8-10	18	
Christmas tree	12	24		Potatoes (Sweet)	18	36	
Citrus; orange, lemon, grapefruit	18	36		Plums	24	48	72
Coffee	18-24	36-48		Prunes	24	48	72
Corn (sweet)	12	30		Pumpkin	18	36	48
Corn (field)	18	36		Radishes	12		
Cotton	18	36	48	Raspberries	18	36	
Cranberries	18	36		Sorghum	18	36	
Cucumbers	18	36		Soy Beans	18	36	60
Date palm	24	48	60	Spinach	12	24	
Egg Plant	12	24		Squash (Summer)	15	30	
Figs	18	36		Strawberries	6	12	
Garlic	12	24		Sudan Grass	18-24	36-48	
Grain and Flax	18	36		Sugar Cane	18	36	
Grapes	24	48	60	Sunflowers	24	48	60
Hops	24	48	60	Tea	12	24	
Jjoba	18	36		Tobacco	8-15	30	
Kiwi	18	36	48	Tomatoes	18	36	
Ladino Clover	10	20		Turnips	18	36	
Lettuce	12			Walnuts	24	48	72
Macadamias	12	24	36	Watermelon	18	36	48
Maize	18	36		Wheat-Hay	18	36	

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