IR TENSIOMETERS

The IR tensiometer is used to measure the water humidity in the soil, accurately indicating the degree of moisture for the roots. It allows you to optimize irrigation, avoiding both excess and deficit of water. Its operation is based on a hermetic tube with water and a porous ceramic tip that balances the pressure with the ground, reflected in the pressure gauge.







MATERIAL CHARACTERISTICS

Body: CAB technical plastic resistant to impacts and UV rays

Porous tip: Ceramic

Manometer: Stainless steel with sealed dial and reading in cb/kPa

Gaskets: Viton

Top cap: Polyethylene

OPERATING CHARACTERISTICS

Measurement range: 0 to 100 cb (kPa) depending on model

Standard lengths: 15 cm, 30 cm, 45 cm and 60 cm

Accuracy: ±2 % of full range

Working temperature: 0 °C to +50 °.

Maintenance: Requires keeping the water column full and checking the cleanliness of the ceramic tip

MODELS

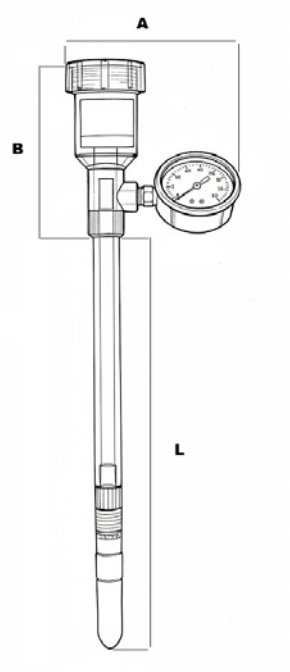
CODE	FUNCTION	RRP (€)
13077030	TENSIOMETERS 150MM	236
13077031	TENSIOMETERS 300MM	245
13077050	TENSIOMETERS 450MM	253
13077033	TENSIOMETERS 600MM	262
13077051	TENSIOMETERS 900MM	279
13077032	SERVICE EQUIPMENT	207

ACCESSORIES



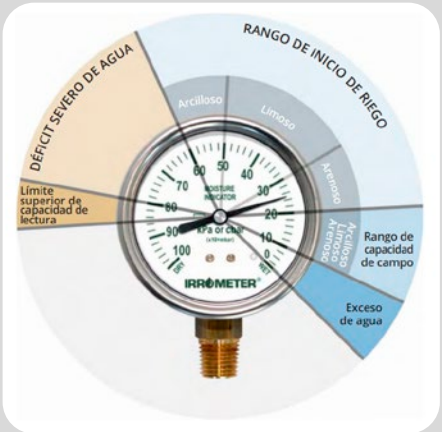
SERVICE EQUIPMENT		
CODE	MODEL	RRP (€)
13077032	DS TEAM	207

DIMENSIONS



CODE	MODEL	A	B	L
13077030	TENSIOMETERS 150MM	135	130	175
13077031	TENSIOMETERS 300MM	135	130	325
13077050	TENSIOMETERS 450MM	135	130	475
13077033	TENSIOMETERS 600MM	135	130	625
13077051	TENSIOMETERS 900MM	135	130	925

INFORMATION



SATURATED SOIL • 0 - 10 cb It may be normal for 24 hours after irrigation. If it persists, it indicates excess moisture that can cause suffocation of the roots.

FIELD CAPACITY • 10 - 20 cb Optimal water content readily available to the plant with minimal energy cost.

LOW WATER AVAILABILITY • 20 - 60 cb Water availability decreases, although there is good root oxygenation. Irrigation begins depending on the type of soil (see attached graph).

WATER STRESS • > 60 cb Water is scarcer and more difficult for the plant to extract, with the risk of permanent wilting in many crops.