

LT Series IRROMETER Tensiometer



Features:

- 0-40 cb (kPa) range gauge for coarse, sandy, or potting-soil applications
- Replaceable ceramic tip
- Direct measurement of soil water tension
- Large reservoir for quick maintenance
- Stainless Steel IP 67 gauge designed for harsh environments
- Membrane vented gauge for temperature and elevation compensation

Measuring soil moisture allows a grower to make informed irrigation scheduling decisions that will improve yields and quality while reducing water, fertilizer, labor, and energy costs. LT IRROMETER's are designed to operate in conditions where tensions above 30 cb (kPa) are not expected. Example applications would include avocado orchards on rocky hillsides, citrus in sandy Florida soils, or greenhouses with potting or non-soil growing media.

The IRROMETER LT measures soil moisture by interacting with the soil through a porous ceramic tip. As soil dries, it tries to pull water out of the instrument, creating vacuum measured by the gauge. This is a direct, physical measurement of the same tension plant roots experience, requiring no electronics, batteries, or calibrations to operate. IRROMETER tensiometers have been on the market since 1951 and are proven by decades of commercial usage and field research, trusted enough to serve as the calibration standard for other sensors.

Available in different lengths to measure at desired depths in the root zone, the LT gauge can also be replaced with electronic options for data devices, or an automatic switch which can be triggered at desired soil water tension levels.

IRROMETER tensiometers are constructed of C.A.B., a durable, renewable, plastic designed for outdoor use. Fitted with stainless-steel gauges for many years of reliable service in field conditions, the gauges incorporate a membrane vent which allows them to maintain accuracy during changing conditions without sacrificing protection.

Specifications:

MATERIALS: C.A.B plastic, ceramic, neoprene, EPDM, bronze, brass, stainless-steel

TIP: LT (blue) threaded replaceable tip, suitable low-tension applications

DIAL SIZE: 2.5 in. (63 mm)

GAUGE CASE: AISI 304 Stainless steel membrane vented case, IP 67

GAUGE WINDOW: Polycarbonate with EPDM gasket seal

GAUGE DIAL: Scale of 0-40 cb (kPa), white with contrasting blue markings

ACCURACY: +3-2-3% of gauge span, ASME B40.1 Grade B

OPERATING TEMPERATURE: 33° to 150° F (0.5° to 65° C)

WARRANTY: One year

WEIGHT: 12" (30cm) instrument: 0.97 lb (0.44 kg), increasing 0.25 lb. (0.114 kg) per ft.

DIMENSIONS:

Reservoir Section: 5.125" (130 mm) ht, 2" (55 mm) dia

Water Tube: 6" (15cm) to 60" (150 cm) len, .875" (22 mm) dia

Ordering Information:

<u>CAT#</u>	<u>Description</u>	<u>CAT#</u>	<u>Description</u>	<u>CAT#</u>	<u>Description</u>
506:	6" (15cm) IRROMETER LT	524:	24" (60cm) IRROMETER LT	1001:	Service Kit w/ hand vacuum pump
512:	12" (30cm) IRROMETER LT	536:	36" (90cm) IRROMETER LT	QFSRT:	Replacement LT Tip
518:	18" (45cm) IRROMETER LT	548:	48" (120cm) IRROMETER LT	1008-LT:	Replacement Gauge LT

Options: 5XX-RSU-V (voltage output) 5XX-AVS (automatic switch) 5XX-RSU-C (4-20mA output)

See "Automation & Output Options" spec sheet for additional details on output options