

Tensiometer - Jet Fill

A tensiometer measures the force with which water is held in the soil by the soil particles. This force, referred to as soil suction, tension, or potential, indicates how tightly the water is bound in the soil, and how much energy must be exerted by plant roots to remove and use the water. The basic components of a tensiometer include a porous ceramic cup, a plastic body tube, and a vacuum gauge. The ceramic cup is placed in good hydraulic contact with the soil and allows transfer of water into and out of the tensiometer body according to the tension in the soil. The vacuum inside the tensiometer body equilibrates with the soil water tension, and the dial gauge provides a direct readout of the tension.

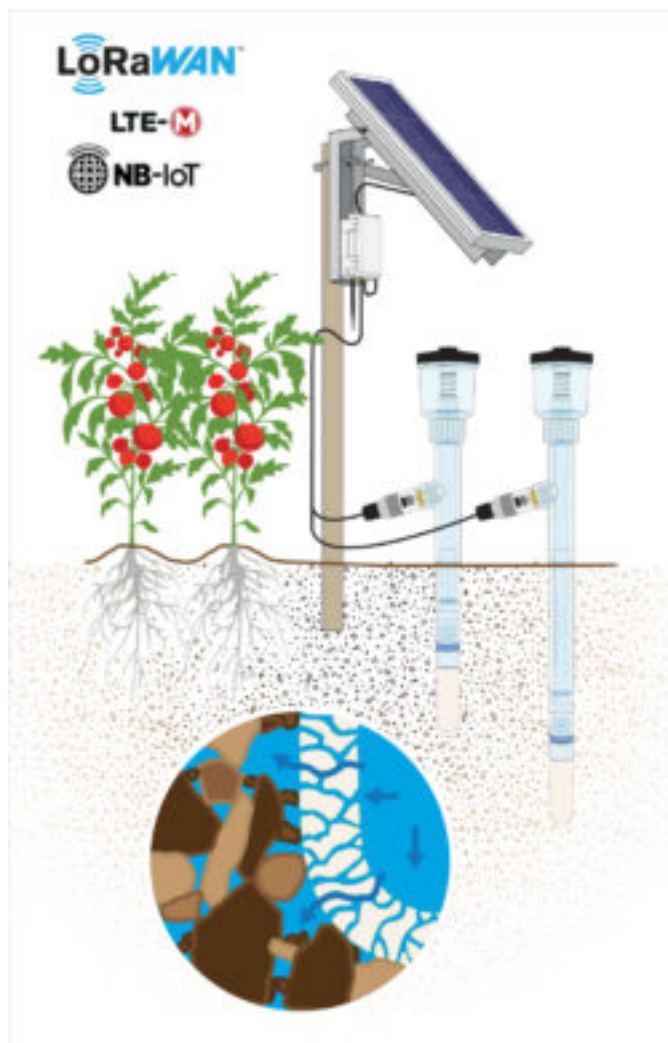
Jetfill Tensiometer Features

The Model 2725AR Jet Fill Tensiometer features the Jet Fill reservoir for push-button convenience and minimisation of soil disturbance when servicing is required. Unique modular construction allows for easy replacement of the porous ceramic cup and dial gauge and adaptation of extensions for flexibility and variety in use. Series 0240 Insertion Tools can be used to core a hole to accept these units.

Utilising the Jetfill Tensiometers in a custom IoT (Internet of Things) package

The [SNiP-GT3](#) is a 'Sensor Node Integrated Package' for LoRaWAN or CAT-M1 communication of real-time soil tension measurements for continuous soil monitoring.

The base SNiP-GT3 integrates 1x [MFR-NODE](#) and 1x [GT3-15 Transducer](#) to a site's unique network, communication and power requirements. The GT3-15 Transducer couples with a preferred Jet Fill Tensiometer. The MFR-NODE can support an added 3x GT3-15 Transducers to monitor soil moisture at multiple depths.



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Specifications

Options:

Part number and Description

- 2725ARL06 JET FILL TENSIO METER, 6 inch length, .76 Lbs (.34kgs)
- 2725ARL12 JET FILL TENSIO METER, 12 inch length, .90 Lbs (.41kgs)
- 2725ARL18 JET FILL TENSIO METER, 18 inch length, 1.03 Lbs (.47kgs)
- 2725ARL24 JET FILL TENSIO METER, 24 inch length, 1.15 Lbs (.52kgs)
- 2725ARL36 JET FILL TENSIO METER, 36 inch length, 1.42 Lbs (.64kgs)
- 2725ARL48 JET FILL TENSIO METER, 48 inch length, 1.68 Lbs (.76kgs)
- 2725ARL60 JET FILL TENSIO METER, 60 inch length, 1.94 Lbs (.88kgs)

