

INFIL-Tracker

Permeable Pavement Monitoring System

Component Images



Specifications & Options

- Measurement Range: 0" to 60"
- Resolution: 0.25 inches
- Sampling Frequency: 10-min. (std)
- Power to Sensor Supplied by INFIL-Tracker Computer
- Sensor Located within P4 Install Shield Driven into Permeable Pavement Stone Gallery
- Pre- or Post-Construction Installation
- Observation Well Compatible
- INFIL-Tracker Suitable for Major Permeable Pavement Systems:
 - PaveDrain (ACB) In-Pavement and Out-of-Pavement
 - Pavers

Wireless (cellular) Data Transmission

- Cat-M1 cellular (2G, 3G, 4G LTE compatible)

Power

Computer & Power Supply:

- Voltage – 12 VDC
- Battery Pack with Solar-Panel Recharge (stand alone)
- In-Pavement (PaveDrain) and Out-of-Pavement (PaveDrain and Paver Options)

Water-Level (Hall-Effect) Sensor:

- Voltage Range – 0 to 12 VDC

Exposure Allowance & Compliance

- FCC and RoHS
- Computer & Battery Enclosure – IP67
- Integral Cellular Antenna in IP67 Enclosure
- Sensor – Intrinsically Safe (IP 68 / NEMA 6P)
- Sensor Connection Cable (IP 68 / NEMA 6P)
- Direct-Bury Cabling (computer to sensor)

Features



Nationwide cellular connectivity (WiFi option – contact P4)



Below-Permeable-Surface Water level measurements documenting:

- Permeable Surface Infiltration
- Subgrade Infiltration
- Runoff Volume Captured
- System Performance and Maintenance Need



Browser-based dashboard (viewing and data download). Advanced notice of potential problems. Data visualization. Data-driven maintenance notification.



Permeable pavement system monitoring to complement other P4 sensor systems

Maintenance (low to zero)

- Modular Plug-and-Play
- Remote Health Assessment of Battery via Dashboard
- Visual Sensor inspection (annual recommended)