

FIELD TECHNICIAN QUICK-REFERENCE CHECKLIST

Soil Tensiometer & Pressure Transducer Servicing Checklist

TECHNICIAN NAME:	Kadeem Manning	DATE / TIME:	___ / ___ / 2026 __:__
LOCATION / STATION:	_____	SENSOR MODEL:	Irrrometer / TensioMark Transducer
SERIAL NUMBER:	S/N: _____	WEATHER / AMBIENT:	Temp: ____ °C RH: ____ %

Step	Verification Procedure	Operational Target / Criteria	Status
1. Ceramic Cup Integrity	Inspect ceramic cup for cracks and organic clogging.	Intact, clean pores	☐ Pass ☐ Fail
2. Cup Saturation	Submerge ceramic cup in 0.01 M CaCl ₂ under vacuum.	-80 kPa vacuum for 2 hrs	☐ Pass ☐ Fail
3. Water De-Airing	Fill tube with de-aired water; pull vacuum with pump.	No bubbles remaining	☐ Pass ☐ Fail
4. Septum Seal Test	Check top reservoir cap rubber septum seal.	Airtight seal at -80 kPa	☐ Pass ☐ Fail
5. Zero Suction Check	Record reading with cup in shallow water bath.	0.0 ± 0.3 kPa output	☐ Pass ☐ Fail
6. Span Check (-50 kPa)	Apply -50.0 kPa suction using reference pump.	-50.0 ± 0.5 kPa reading	☐ Pass ☐ Fail
7. Slurry Preparation	Prepare 100-mesh silica flour slurry for hole bottom.	Smooth, lump-free paste	☐ Pass ☐ Fail
8. Soil Installation	Insert tensiometer into augered hole with silica slurry.	Full ceramic-soil contact	☐ Pass ☐ Fail
9. Response Check	Monitor suction curve stabilization post-installation.	Stabilized in ≤ 15 min	☐ Pass ☐ Fail
10. Cable Protection	Inspect transducer signal wire conduit & seal.	Weatherproof, rodent-proof	☐ Pass ☐ Fail

FIELD NOTES & OBSERVATIONS:

FIELD TECHNICIAN SIGN-OFF & APPROVAL

Lead Specialist: Kadeem Manning Role: Field Calibration & Maintenance Specialist Document: Standalone Quick-Reference Checklist	Signature: _____ Sign Date: _____
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