

SMART METER INSTALLATION INSPECTION CHECKLIST

GENERAL INFORMATION

Name: _____

Date: _____

Location: _____

Meter Base Socket, Enclosure, and Structural Mounting

☐ Yes ☐ No — Meter base enclosure is securely mounted, level, and anchored to structure with approved fasteners

☐ Yes ☐ No — NEMA 3R outdoor enclosure shows no rust, puncture damage, missing knockouts, or water intrusion

☐ Yes ☐ No — Service entrance conduit, weatherhead fittings, and Meyers hubs have intact weatherproof gaskets

☐ Yes ☐ No — Equipment grounding conductor and neutral bonding jumper are securely bonded with correct torque

Socket Jaws, Wiring Terminations, and Arc Flash Safety

☐ Yes ☐ No — Meter socket spring jaws maintain tight contact tension with zero signs of spreading or pitting

☐ Yes ☐ No — Line-side and load-side conductor insulation shows no thermal blistering, cuts, or pinched wires

☐ Yes ☐ No — Phase conductors are properly color-coded and phased (line top, load bottom) with lugs torqued to spec

☐ Yes ☐ No — Flash shields, terminal barrier plates, and insulating guides are undamaged and seated properly

Smart Meter Device Installation and Sealing

☐ Yes ☐ No — Smart meter terminal blades slide firmly and seat fully into socket jaws with positive mechanical engagement

☐ Yes ☐ No — Polycarbonate meter dome and glass enclosure show zero cracks, scratches, or interior condensation

☐ Yes ☐ No — Meter serial number, barcode, and utility asset tag match the dispatch work order precisely

☐ Yes ☐ No — Heavy-duty utility tamper-evident seal and locking ring are fastened and registered in the field log

Voltage, Load Check, and Digital Display Diagnostics

☐ Yes ☐ No — Nominal service voltage (e.g., 120/240V split-phase or 120/208V 3-phase) verifies within utility tolerance

☐ Yes ☐ No — Load-side back-feed test confirms zero unexpected foreign voltage before closing service disconnect

☐ Yes ☐ No — Digital LCD display powers up immediately and cycles through active kilowatt-hour (kWh) and voltage readouts

☐ Yes ☐ No — Meter phase rotation and reverse power flow indicators show correct forward energy flow

AMI/AMR Telemetry, Network Sync, and Final Closeout

☐ Yes ☐ No — Internal RF mesh or cellular transceiver establishes verified link with utility collector network

☐ Yes ☐ No — Meter provisioning handshake completes two-way communication verification with utility headend (MDMS)

☐ Yes ☐ No — Customer main service disconnect or breaker operates smoothly and restores power reliably

☐ Yes ☐ No — Work area is clear of discarded wire trimmings, old meter parts, and hazard warning barriers removed

FINAL NOTES

Inspector Comments:

Inspector Name: _____

Inspector Email: _____

Inspection Date: _____

☐ I confirm this inspection was completed accurately

Powered by:  FIELD EAGLE www.fieldeagle.com