

WAVELET SALTWATER DISPOSAL WELL (SWD) KIT

SUMMARY

Underground injection into saltwater disposal wells (SWDs) is the preferred methodology for the management of flow-back and produced water. Remote monitoring provides SWD operators with valuable data that can be used to increase efficiency, reduce operating costs, and improve profitability.

The Saltwater Disposal Well Kit offers comprehensive solutions for the remote monitoring of virtually all SWD surface equipment and processes. A flow meter input and current transformer enable operators to assess pump operations and gain insights about volumes unloaded per truckload. Level sensors support tank storage and injection management. Water quality sensors provide data on parameters such as pH, conductivity, and total suspended solids (TSS) for water fingerprinting.

FEATURES

- ▶ Seamless Data Generation
- ▶ Modular Applications
- ▶ Third-Party Software Integration
- ▶ Secure Bidirectional Communication

APPLICATIONS

- ▶ Reduce Unplanned Downtime
- ▶ Water Fingerprinting & Volumetrics
- ▶ Facility Management & Automation
- ▶ Ticket Audits & Automated Invoicing

SENSOR SPECIFICATIONS

A. Conductivity Sensor

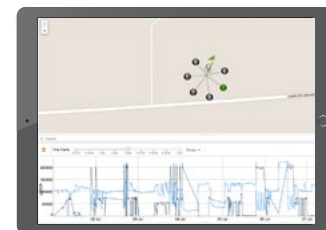
Range	0 – 2,000,000 $\mu\text{S}/\text{cm}$
Operating Temperature	-10°C to 200°C (14°F to 392°F)

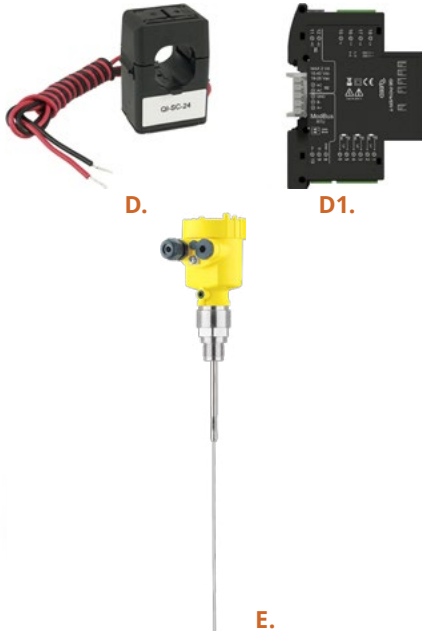
B. pH Sensor

Range	-2 to 14 pH
Sensitivity	± 0.01 pH
Operating Temperature	-5°C to 70°C (23°F to 158°F)

C. TSS Sensor

Range	0 – 2,000 mg/L (0 – 2,000 ppm)
Resolution	0.05% of full span
Operating Pressure	0 – 10.3 bar (0 – 150 psi)
Process Temperature	-10°C to 110°C (15°F to 230°F)





D. AC Current Transformer (Primary 100A, Secondary 5A)

Input Current	0 – 100 Amp AC
Overload	160 Amp AC
Rated Frequency	50/60 Hz
Rated Voltage	0.66 kV
Accuracy	≤ 1.5% of span
Operating Temperature	-15°C to 45°C (5°F to 113°F)

E. Guided Wave Radar Level Sensor

Range	75 m (246 ft)
Rod Probe	2,000 mm L x 8 mm ø (78.7 in. L x 0.31 in. ø)
Process Fitting	G¾ PN40
Process Temperature	-40°C to 200°C (-40°F to 392°F)
Process Pressure	-1 bar to 40 bar (-14.5 psi to 580 psi)
Accuracy	±2 mm (±0.08 in.)

Model No. WA3111-SE00033-SE00049-SE00050-SE00094-SE00094-SE00094-SE00100-S-WA00134-WA00155

Wavelet Saltwater Disposal Well (SWD) Kit includes:

- Wavelet Device & Activator
- 4G (LTE), 3G, 2G Global SIM Card
- Internal Lithium Battery
- Installation Hardware
- External Power Connector
- **WA00155** 4-Port Serial Cable Splitter
- **A. SE00033** Inductive Conductivity Sensor, 7 m (22-ft) Cable
- **B. SE00049** General Purpose pH and Temperature Sensor, 10 m (33-ft) Cable
- **C. SE00050** Total Suspended Solids Sensor, 30 cm (12 in.) Insertion Style, 1"x7/8" Pipe Fitting, 6 m (20-ft) Cable
- **D. SE00094** AC Current Transformers (Primary 100A, Secondary 5A), Split Core 2.4 cm (0.9 in.) Window, 1 m (3-ft) Cable
- **D1. WA00134** Three-Phase Power Analyzer
- **E. SE00100-S** Guided Wave Radar Level Sensor - Crude Oil, NGL, Water, and Chemicals, 75 m (246-ft) Range, Oil-Water Interface Detector, 15 m (50-ft) Cable

ACCESSORY SPECIFICATIONS

D1. Three-Phase Power Analyzer (used with D.)

Power Supply	10-40 VDC or 18-28 VAC - 50/60Hz
Voltage Input	Direct connection up to 500V RMS max. (40-70Hz)
Accuracy	Voltage: ±0.5% RDG; Current ±0.5% RDG; Active & Reactive Power: ±0.5% RDG
Operating Temperature	-10°C to 60°C (14°F to 140°F)