PRODUCT DATASHEET

Smart Chemical-Injection Retrofit Kit

Tank level, flow verification, remote monitoring and solar power for installed skids

Product page





Close-up: level transmitter, flow verification and RTU

OVERVIEW

The Tech Inc. Smart Chemical-Injection Retrofit Kit upgrades chemical-injection skids already in the field so the operator knows, without a site visit, that the chemical is going in. A tank-level transmitter shows stock and consumption, a flow meter or calibration column verifies the actual injection rate, a small RTU sends the data over cellular or the plant network, and a solar power pack runs it all at sites with no power.

TYPICAL DESIGN DATA

Level	Radar or hydrostatic pressure, 4–20 mA
Flow	Low-flow meter or calibration column, about 0.1 to 100 L/h
Communication	Cellular, Modbus RTU/TCP or 4–20 mA to the plant system
Codes and standards	Instruments certified to IEC 60079 for the area classification
Power	Solar panel and battery sized for the site, or mains
Area classification	Ex-certified instruments for Zone 1 or 2
Data	Level, flow, pump status and alarms

MODELS AND CAPACITIES

- **TI-SIK-L** – tank level
- **TI-SIK-LF** – tank level and flow verification
- **TI-SIK-LFR** – level, flow and remote monitoring
- **TI-SIK-LFRS** – level, flow, remote and solar power

Indicative kit levels; each is matched to the skid in service.

ORDERING CODE

Example **TI-SIK-LFRS-C**: **LFRS** scope: L, LF, LFR, LFRS; **C** link: C cellular, M Modbus to plant system.

SCOPE OF SUPPLY

Included: factory acceptance test with a written report; drawings for approval, material certificates and manual. **Options:** automatic calibration column; pump speed control from the RTU; monitoring platform through a partner; spare instruments; annual service visit.

KEY ADVANTAGES

- **Proof of injection** – measured flow, not assumed
- **Retrofit** – fits skids already in service
- **Fewer visits** – level and alarms seen remotely
- **Off-grid** – solar power pack

Designed and built by Tech Inc. · **Part of the Davey Group since 1990**

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