

Emerson Rosemount 24281-00

VP8 Sensor Interconnecting Cable

Product scope

- Provides a 15 ft connection between a VP8 sensor and the analyzer wiring.
- Carries measurement, temperature and solution-ground circuits in one assembly.
- Allows the sensor to disconnect from the installed cable during maintenance.

Manufacturer source

Exact-model technical record

Verified model-specific overview, function, operating principle, applications and technical data.

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Emerson Rosemount 24281-00

VP8 Sensor Interconnecting Cable

Product overview

Emerson Rosemount 24281-00 is the 15 ft (4.57 m) VP8 interconnecting cable used with compatible Rosemount pH/ORP sensors. It carries the sensor, temperature and solution-ground circuits between the detachable sensor connector and analyzer wiring.

24281-00 provides a 15 ft cable assembly for VP8-equipped Rosemount liquid-analysis sensors. The detachable sensor end supports maintenance exchange while the analyzer end terminates the individual measurement conductors.

The cable transfers the very high-impedance pH signal together with temperature and solution-ground connections required by the selected sensor. Shielding and insulation protect these circuits along the run from sensor to transmitter.

Routing must avoid moisture at the VP connector, excessive mechanical strain and parallel runs with noisy power conductors. Existing analyzer terminals should be identified before removal because the cable is not a generic eight-wire plant lead.

Technical specifications

Cable type	VP8 sensor interconnecting cable
Cable length	15 ft / 4.57 m
Sensor interface	Detachable VP8 connector
Compatible application	Rosemount 3900VP pH/ORP sensor installations
Circuit functions	Measurement, temperature and solution-ground conductors
Installation status	Required separately for first-time VP sensor installations
Service benefit	Sensor can be replaced without removing the complete cable run

24281-00 function and operating principle

Ordered configuration

This order number is the interconnecting cable, not the pH sensor or analyzer.

System role

Its conductors preserve the low-level electrochemical signal and auxiliary sensor circuits over the documented length.

Selection and installation

Connector condition and analyzer terminal mapping must be checked before reuse or replacement.

Functional path

- Provides a 15 ft connection between a VP8 sensor and the analyzer wiring.
- Carries measurement, temperature and solution-ground circuits in one assembly.
- Allows the sensor to disconnect from the installed cable during maintenance.

Application scenarios

- New 3900VP installations use the cable to reach a nearby panel-mounted liquid analyzer.
- Maintenance teams can leave the cable in place while exchanging a fouled or exhausted VP sensor.
- Skid builders can route one defined assembly from the process connection to the instrument enclosure.

24281-00 engineering checks

Connectivity

- The sensor end uses the keyed VP8 detachable connector.
- Individual analyzer-side conductors terminate measurement and auxiliary circuits.
- The 15 ft length defines the available route between sensor and transmitter.

Installation

- Cable routing should remain separated from high-voltage and variable-frequency-drive conductors.
- The VP8 connector must remain dry and fully engaged after sensor installation.
- Strain relief prevents process vibration from loading either termination.

Performance & Efficiency

- Shielding protects the high-impedance pH circuit from coupled electrical noise.
- Clean insulation limits leakage current that could shift the measured millivolt signal.
- Correct temperature and solution-ground terminations preserve compensation and diagnostics.

Critical technical note

Protect both ends of Emerson Rosemount 24281-00 from moisture and contamination; leakage at the VP8 connector can corrupt the pH measurement.

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