



Emerson Rosemount 1056-01-22-38-HT + 3900VP-02-10 + 24281-00

Matched pH Measurement Set

Product scope

- Combines the exact 1056 analyzer, 3900VP sensor and 15 ft VP8 cable identities.
- Provides a complete signal path from pH glass through the analyzer's HART-enabled input.
- Keeps all three manufacturer part numbers visible for future maintenance and replacement.

Manufacturer source

Exact-model technical record

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

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Matched pH Measurement Set

Product overview

Emerson Rosemount 1056-01-22-38-HT + 3900VP-02-10 + 24281-00 is an Apter-matched pH measurement set comprising the HART analyzer, no-preamp general-purpose pH sensor and 15 ft VP8 cable. Each component retains its own manufacturer part number.

1056-01-22-38-HT + 3900VP-02-10 + 24281-00 brings together three individually identified Rosemount components. The analyzer provides the pH/ORP/ISE input, the sensor supplies the electrochemical measurement and the cable joins their VP8 connection over 15 ft.

In operation, the sensor's glass and reference system generate a millivolt signal that the cable carries to the 1056 input. The analyzer applies calibration and temperature compensation, presents the result locally and exposes the configured HART communication path.

This is a matched supply set rather than a single OEM catalog number. Process connection, mounting hardware, sample conditions and any additional accessories must still be confirmed because they are not encoded by the three listed part numbers.

Technical specifications

Analyzer	1056-01-22-38-HT
Measurement board	pH/ORP/ISE in channel 1
Communication	HART
Sensor	3900VP-02-10 general-purpose pH
Sensor preamplifier	None
Sensor range	0 to 14 pH
Interconnecting cable	24281-00
Cable length	15 ft / 4.57 m
Sensor connection	VP8 detachable
Analyzer enclosure	NEMA 4X / IP65
Analyzer supply	115/230 V AC, 50/60 Hz
Supply definition	Apter-matched component set; not one OEM order code

1056-01-22-38-HT + 3900VP-02-10 + 24281-00

function and operating principle

Ordered configuration

The set is assembled from three separate cataloged components and is not represented as a single Emerson part number.

System role

Together they form the sensing, interconnection and signal-processing stages of one pH measurement loop.

Selection and installation

Process mounting and analyzer configuration remain site-specific and require confirmation before shipment.

Functional path

- Combines the exact 1056 analyzer, 3900VP sensor and 15 ft VP8 cable identities.
- Provides a complete signal path from pH glass through the analyzer's HART-enabled input.
- Keeps all three manufacturer part numbers visible for future maintenance and replacement.

Application scenarios

- Water-treatment skids can receive coordinated sensing and analyzer components in one procurement line.
- Replacement projects can renew an aging analyzer, sensor and cable while preserving exact component traceability.
- Pilot and utility systems can build a HART-accessible pH loop around the documented 15 ft cable reach.

1056-01-22-38-HT + 3900VP-02-10 + 24281-00 engineering checks

Integration

- The VP8 cable links the no-preamp sensor directly to the analyzer's pH input.
- The analyzer must be configured for the sensor temperature element and measurement mode.
- Each component remains separately replaceable under its own part number.

Control

- The glass electrode and reference generate the primary electrochemical potential.
- Cable shielding carries the high-impedance signal and auxiliary circuits to the analyzer.
- The 1056 performs calibration, compensation, display and output processing.

Programming

- A two-buffer calibration establishes sensor slope and zero after installation.
- Temperature response and solution-ground behavior should be confirmed during loop checks.
- HART and analog output settings are validated only after a stable process reading is obtained.

Critical technical note

Commission the complete 1056-01-22-38-HT + 3900VP-02-10 + 24281-00 loop together; mixing preamp or temperature settings can invalidate calibration.

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